#### **General Disclaimer**

## One or more of the Following Statements may affect this Document

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some
  of the material. However, it is the best reproduction available from the original
  submission.

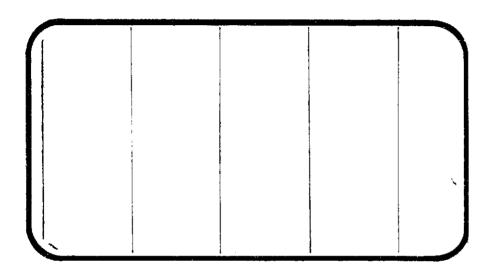
Produced by the NASA Center for Aerospace Information (CASI)



# NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-

141846



(NASA-CR-141846) AERCDYNAMIC RESULTS OF A SEPARATION TEST (CA20) CONDUCTED AT THE BOEING TRANSONIC WIND TUNNEL USING (.030-SCALE MODELS OF THE CONFIGURATION 140A/B (MODIFIED) SSV ORBITER (MODEL NO.

N76-16035

HC \$32.75

Unclas G3/J2 U8756

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

**DATA MAN**agement services



DMS-DR-2217 NASA CR-141,846

VOLUME 3 of 3

AERODYNAMIC RESULTS OF A SEPARATION TEST (CA20)
CONDUCTED AT THE BOEING TRANSONIC WIND TUNNEL
USING 0.030-SCALE MODELS OF THE CONFIGURATION
140A/B (MODIFIED) SSV ORBITER (MODEL NO. 45-0) AND
THE BOEING 747 CARRIER (MODEL NO. AX 7319 I-1)

bу

T. Dziubala, V. Esparza, R. L. Gillins and M. Petrozzi Shuttle Aero Sciences Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

bу

Data Management Services Chrysler Corporation Space Division New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center National Aeronautics and Space Administration Houston, Texas

## WIND TUNNEL TEST SPECIFICS:

Test Number:

BTWT 1431/AX 1319 I-1

NASA Series Number:

CA20

Model Number:

45-0 Mod/747 Carrier AX 1319 I-1

Test Dates:

9 through 16 October 1974

Occupancy Hours:

#### FACILITY COORDINATOR

AERODYNAMICS ANALYSIS ENGINEERS:

B. Sendek The Boeing Company Orgn. B-8342 MS1W-82 Seattle, Washington 98007 W. L. Osborn and J. F. Kerswell Rockwell International

Mail Code ACO7 12214 Lakewood Blvd.

Downey, California 90241

Phone: (206) 655-3037

Phone: (213) 922-5049

### PROJECT ENGINEERS:

T. Dziubala, V. Esparza R. L. Gillins, M. Petrozzi Rockwell International Space Division

12214 Lakewood Blvd.

Mail Code AC07

Cowney, California 90241

C. R. Mullen

Boeing Aerospace Company

M. S. OT-55

P. O. Box 3999

Seattle, Washington 98124

Phone: (213) 922-4898

Phone: (206) 342-1220

## DATA MANAGEMENT SERVICES:

Prepared by:

Liaison--D. A. Sarver

Operations--R. H. Lindahl

Reviewed by:

D. E. Poucher

Approved:

J. L. Glynn, Manager

Concurrence:

Kemp, Manager

Data Operations

Data Management Services

Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

AERODYNAMIC RESULTS OF A SEPARATION TEST (CA20)

CONDUCTED AT THE BOEING TRANSONIC WIND TUNNEL

USING 0.030-SCALE MODELS OF THE CONFIGURATION

140A/B (MODIFIED) SSV ORBITER (MODEL NQ. 45-0) AND

THE BOEING 747 CARRIER (MODEL NO. AX 1319 I-1)

by

T. Dziubala, V. Esparza, R. L. Gillins and M. Petrozzi Rockwell International Space Division

#### **ABSTRACT**

An experimental aerodynamic investigation (CA20) was conducted in the Boeing Transonic Wind Tunnel from October 9 through October 16, 1974. A Rockwell built 0.030-scale 45-0 modified SSV Orbiter Configuration 140A/B model and a Boeing built 0.030-scale 747 carrier model were tested to provide six component force and moment data for each vehicle in proximity to the other at a matrix of relative positions, attitudes and test conditions. Orbiter model support system tare effects were determined for corrections to obtain support-free aerodynamics.

In addition to the balance force data, pressures were measured. Pressure orifices were located at the base of the Orbiter, on either side of the vertical blade strut, and at the mid-root chord on either side of the vertical tail. Strain gages were installed on the Boeing 747 vertical tail to indicate buffet onset.

The 747 carrier was varied through angles of attack (measured with respect to its FRL) of 0°, 2°,4°,6°,8°, and 10° and varied through sideslip

angles of 0°, +5°, and -5°. Elevator settings were also varied.

The SSV Orbiter model was varied through angles of attack of  $6^{\circ}$ ,  $8^{\circ}$ ,  $10^{\circ}$ ,  $12^{\circ}$ ,  $14^{\circ}$ ,  $16^{\circ}$ , and  $18^{\circ}$  and varied through sideslip angles of  $2.5^{\circ}$ ,  $0^{\circ}$ ,  $-2.5^{\circ}$ ,  $-5^{\circ}$ ,  $-7.5^{\circ}$ ,  $-10^{\circ}$ , and  $-15^{\circ}$ .

Vertical displacements of 0", 1", 2", 3", 5", 7", 9", 11", 13", 15", 18", and 21.6" (model scale) were tested. Longitudinal movements of 0", 3.6", and 7.2" (model scale) and lateral displacements of 0" and 3.6" (model scale) were tested to simulate various separation positions. Orbiter elevon deflections were also varied.

Orbiter support system tare and interference effects were determined utilizing various support and image support strut configurations. Carrier support system tare and interference effects were determined during test CA5.

The Orbiter tail cone and carrier models were provided by The Boeing Company. The Orbiter model was provided by Rockwell. These were the same models used earlier in test CA5.

This report for CA20 consists of three volumes: Volume 1 - data figures 1 through 25; Volume 2 - data figures 26 through 39; Volume 3 - tabulated source data.

# TABLE OF CONTENTS

 $(\coprod)$ 

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	* **
INDEX OF DATA FIGURES	4
NOMENCLATURE	9
REMARKS	15
CONFIGURATIONS INVESTIGATED	16
TEST FACILITY DESCRIPTION	20
DATA REDUCTION	21
REFERENCES	22
TABLES	
I. TEST CONDITIONS	25
II. DATA SET/RUN NUMBER COLLATION SUMMARY	26
III. MODEL DIMENSIONAL DATA	
A. CARRIER	38
B. ORBITER	51
IV. CA20 DATASET DESCRIPTION (RAW DATA)	52
V. CA20 COEFFICIENT SCHEDULE (RAW DATA)	63
VI. CA20 DATASET DESCRIPTION (INTERPOLATED/INCREMENTED DATASETS)	64
VII. CA20 INTERPOLATED DATASET SUMMARY (M AND N DATASETS)	65
VIII. CA20 INCREMENTAL DATASET SUMMARY (INTERFERENCE) - (ISOLATED) (U AND V DATASETS)	67
IX. SPECIAL INTERPOLATION FOR CONFIGURATIONS WITH	68

# TABLE OF CONTENTS (Concluded)

	Page
TABLES (Continued)	
X. SPECIAL INTERPOLATED INCREMENTS FOR CONFIGURATIONS WITH ATTACH HARDWARE	69
XI. CARRIER SUPPORT STRUT TARE AND INTERFERENCE CORRECTION PROCEDURE	70
FIGURES	
MODEL	71
DATA	
(VOLUME 1 - FIGURES 1-25)	85
(VOLUME 2 - FIGURES 26-39)	85
APPENDIX	
TABULATED SOURCE DATA (VOLUME 3)	85

# INDEX OF MODEL FIGURES

igur	е	Title	Page
٦.		Axis systems.	
	a.	General	71
	b.	Orbiter/747 Axis System Definition	72
2.		Model sketches.	
	a.	SSV Orbiter Configuration (VC70-000002)	<b>7</b> 3
	b.	Orbiter/747 Flight Test Configurations	74
	c.	Base Pressure Locations	75
	d.	Blade Strut and Vertical Tail Pressure Locations	76
	e.	Standard In-Flight Speed-Brake	77
	f.	Test Support Configurations	78
	g.	Orbiter/747 C.G. and C.R. Orientation	79
3.		Model photographs.	
	a.	Orbiter Alone with Dummy Blade in Proximity for Sting Tare Effect Study	80
	b.	Orbiter Alone with Tail Cone TC <sub>5.1</sub>	81
	c.	Aft View of the Orbiter/747 Showing Vertical Displacement	82
	d.	Front View of the Orbiter at an Angle Of Attack with Respect to the 747 Carrier	83

INDEX OF DATA FIGURES

	INDEX OF DATA FIGURE			
FIGURE NUMBER	TITLE	SCHEDULE OF PLOTTED COEFFICIENTS	CONDITIONS VARYING	PAGES
VOLUME 4	EFFECT OF ORBITER SUPPORT STRUT MOUNTING SYSTEM ON 01	· A	CONFIG, MACH	1-10
5	EFFECT OF ORBITER SUPPORT STRUT MOUNTING SYSTEM ON 02	A	CONFIG, MACH	11-20
6	ORBITER ALONE ELEVON AND AILERON EFFECTS - 01	A	MACH, ELEVON, AILRON	21-30
7	ORBITER ALOME ELEVON AND AILERON EFFECTS - 02	Α	ELEVON, AILRON	31-35
8	ORBITER ALONE DELTA Z VARIATIONS (TUNNEL ANOMALIES)	В	ALPHA0	36-39
. 9	ORBITER ALONE SIDESLIP EFFECTS - 01 (BETA SWEEP)	С		40-40
70	ORBITER ALONE SIDESLIP EFFECTS - 01 (ALPHA SWEEP	) D	MACH, BETAO	41-42
11	ORBITER ALONE SIDESLIP EFFECTS - 02 (ALPHA SWEEP	) D	BETAO	43-43
12	ORBITER ALONE SIDESLIP EFFECTS - 05 (ALPHA SWEEF	r) D	BETAO	44-44
13	ORBITER ALONE CONFIGURATION EFFECTS	Α	CONFIG, MACH	45-54
14	ORBITER ALONE RUDDER EFFECTS	A	CONFIG, MACH, BETAO, RUDDER	55-64
15	CARRIER ALONE BASIC AERODYNAMIC CHARACTERISTICS	E	BETAC	65-68
16	CARRIER SIDESLIP EFFECTS IN PRESENCE OF ORBITER (BETA SWEEP)	F	Y	69-70

INDEX OF DATA FIGURES (Continued)

		INDEX OF DATA FIGURES (CO	SCHEDULE OF		
	FIGURE NUMBER	TITLE	PLOTTED COEFFICIENTS	CONDITIONS VARYING	PAGES
ļ	17	ORBITER SIDESLIP EFFECTS IN PRESENCE OF CARRIER	F	DY	71-72
÷	18	ORBITER ANGLE OF ATTACK EFFECTS ON CARRIER IN PRESENCE OF ORBITER	G		73-76
	19	ORBITER ANGLE OF ATTACK EFFECTS ON ORBITER IN PRESENCE OF CARRIER	Α		77-81
-	20A	EFFECTS OF ATTACH HARDWARE ON CARRIER IN PRESENCE OF ORBITER	H	CONFIG, ALPHAO	82-99
	208	SIDESLIP EFFECTS ON CARRIER IN PRESENCE OF ORBITER WITH ATTACH HARDWARE	I	CONFIG, ALPHAO, BETA	100-105
-	20C	SPOILER EFFECTS ON CARRIER IN PRESENCE OF ORBITER WITH ATTACH HARDWARE	J	CONFIG, ALPHAW, BETA	106-155
	21A	EFFECTS OF ATTACH HARDWARE ON ORBITER IN PRESENCE OF CARRIER	E H	CONFIG, ALPHAO	156-173
	21B	SIDESLIP EFFECTS ON ORBITER IN PRESENCE OF CARRIER WITH ATTACH HARDWARE	I	CONFIG, ALPHAO, BETAO	174-179
	210	SPOILER EFFECTS ON ORBITER IN PRESENCE OF CARRIER WITH ATTACH HARDWARE	J	CONFIG, ALPHAO, BETAO	180-229
	22	COMPARISON BETWEEN INTERPOLATED (MGN DATASETS) AND RAW CARRIER DATA	) К	ALPHAO, ALPHAC, DY, PHI	230-253
	23	COMPARISON BETWEEN INTERPOLATED (NGN DATASETS AND RAW ORBITER DATA	S) K	ALPHAO, ALPHAC, DY, PHI,	254-283 :

INDEX OF DATA FIGURES (Continued)

f	···	INDEX OF DATA FIGURES (Continued)		
	FIGURE NUMBER	TITLE	SCHEDULE OF PLOTTED COEFFICIENTS	CONDITIONS VARYING PAGES
	24	VARIATION OF CARRIER CHARACTERISTICS WITH DELTA Z (01 AT PHI = 0)	L	CONFIG, ALPHAO, 284-623 ALPHAC, BETAC, SETAO, DX, DY
	25	VARIATION OF CARRIER CHARACTERISTICS WITH DELTA Z (01 AT PHI = 7.5)	L	CONFIG, ALPHAC, 624-831 BETAO, BETAC, ALPHAO, DX, DY
	VOLUME	<u>2</u>		į
, i	26	VARIATION OF ORBITER CHARACTERISTICS WITH DELTA Z (01 AT PHI = 0)	М	CONFIG, ALPHAC, 832-1132 ALPHAO, BETAC, BETAO, DX, DY
O	27	VARIATION OF ORBITER CHARACTERISTICS WITH DELTA Z (OI AT PHI = 7.5)	M	CONFIG, ALPHAC, 1133-1314 ALPHAO, BETAC, BETAO, DX, DY
	28	VARIATION OF CARRIER CHARACTERISTICS WITH DELTA Z (02 AT PHI = 0)	L	CONFIG, ALPHAC, 1315-1434 ALPHAO, BETAC, DX, DY
5	29	VARIATION OF ORBITER CHARACTERISTICS WITH DELTA Z (02 AT PHI = 0)	М	CONFIG, ALPHAC, 1435-1539 ALPHAO, BETAC, DX, DY
	33	VARIATION OF CARRIER CHARACTERISTICS WITH DELTA Z (ELEVATOR = 0)	Þ	ALPHAO, ALPHAC, 1540-1563 BETAC
	31	VARIATION OF ORBITER CHARACTERISTICS WITH DELTA Z (ELEVATOR = 0)	М	ALPHAO, ALPHAC, 1564-1605 BETAC

INDEX OF DATA FIGURES (Continued)

,	INDEX OF DATA FIGURES (C	SCHEDULE OF	<del></del>	
FIGURE NUMBER	TITLE	PLOTTED COEFFICIENTS	CONDITIONS VARYING	PAGES
32	ELEVATOR EFFECTS ON CARRIER SEPARATION CHARACTERISTICS (DELTA Y = 0)	Р	ALPHAO, ELV-IB, ELV-OB	1606-1617
33	ELEVATOR EFFECTS ON ORBITER SEPARATION CHARACTERISTICS (DELTA Y = 0)	· - B	ALPHAO, ELV-IB, ELV-OB	1618-1629
34	RUDDER EFFECTS ON CARRIER SEPARATION CHARACTERISTICS (DELTA Y = 0)	L	CONFIG, ALPHAO, RUDDER	1630-1653
35	RUDDER EFFECTS ON ORBITER SEPARATION CHARACTERISTICS (DELTA Y = 0)	M	CONFIG, ALPHAO, RUDDER	1654-1674
36	ELEVON EFFECTS ON CARRIER SEPARATION CHARACTERISTICS (DELTA Y = 0)	L	ALPHAO, ELEVON, AILRON	1675-1698
37	ELEVON EFFECTS ON ORBITER SEPARATION CHARACTERISTICS (DELTA Y = 0)	М	CONFIG. ALPHAO ELEVON, AILRON	1699-171 <b>9</b>
38	DELTA Z AND ALPHAO BIVARIANT EFFECTS ON CARRIER (PHI, BETAO, BETAC = 0)	N	ALPHAC, DX	1720-1791
39	DELTA Z AND ALPHAO BIVARIANT EFFECTS ON ORBITER (PHI, BETAO, BETAC = 0)	0	ALPHAC, DX	1792-1863 <sup>.</sup>

### INDEX OF DATA FIGURES (Concluded)

### SCHEDULE OF PLOTTED COEFFICIENTS:

- (A) CN versus ALPHAO; CN versus CLM; CA, CLM, CL versus ALPHAO; CL versus CD; CD, CY, CYN, CBL versus ALPHAO
- (B) CN, CLM, CA, CL, CD, CY, CYN, CBL versus DZ
- (C) CY, CYN, CBL versus BETAO
- (D) CY, CYN, CBL versus ALPHAO
- (E) CL versus ALPHAW; CL versus CD; CL versus CLM; CLM, CY, CYN, CBL, CLN, CSL versus ALPHAW
- (F) CY, CYN, CBL, CLN, CSL versus BETA
- (G) CL, CD, CN, CLM, CY, CYN, CBL, CLN, CSL versus ALPHAO
- (H) CL, CD, CLM, CN, CA, DCL, DCD, DCLM, DCN, DCA versus DZ
- (I) CY, CYN, CBL, CLN, CSL, DCY, DCYN, DCBL, DCLN, DCSL versus DZ
- (J) CL, CD, CLM, CN, CA, CY, CYN, CBL, CLN, CSL, DCL, DCD, DCLM, DCN, DCA, DCY, DCYN, DCBL, DCLN, DCSL versus DZ
- (K) CL, CD, CLM, CY, CLN, CSL versus DZ
- (L) CL, CD, CLM, CY, CYN, CBL, CLN, CSL, DCL, DCD, DCLM, DCY, DCYN, DCBL, DCLN, DCSL versus DZ
- (M) CN, CLM, CA, CL, CD, CY, CYN, CBL, DCN, DCLM, DCA, DCL, DCD versus DZ
- (N) DCL, DCLM, DCD, DCY, DCLN, DCSL, DCYN, DCBL versus DZ
- (0) DCN, DCLM, DCA, DCY, DCYN, DCBL, DCL, DCD versus DZ
- (P) CL, CD, CLM, CY, CYN, CBL, CLN, CSL versus DZ

## NOMENCLATURE

Symbol	Plot Symbol	Description
b	BREF	reference span, in
BSTA	ХC	longitudinal carrier station, in
BWL	ZC	vertical carrier station, in
<del>c</del>	LREF	mean aerodynamic chord, in
$c_{A}$	CA	axial force coefficient
$c_D$	CD	drag coefficient
$c_{\ell_B}$	CBL	body axis rolling moment coefficient
$c_{\ell_S}$	CSL	stability axis rolling moment coefficient
$c_L$	CL	lift coefficient
C <sub>m</sub>	CLM	pitching moment coefficient
$c_{\eta_B}$	CYN	body axis yawing moment coefficient
$c_{\eta_S}$	CLN	stability axis yawing moment coefficient
CN	CN	normal force coefficient
$c_{P_{B_1}}$	PB1	Orbiter base pressure coefficient for orifice no. 1, see Figure 2c
c <sub>PB2</sub>	PB2	Orbiter base pressure coefficient for orifice no. 2, see Figure 2c
$c_{P_{B_{4}}}$	PB4	Orbiter base pressure coefficient for orifice no. 4, see Figure 2c
CPCAV	PCAV	Orbiter cavity pressure coefficient

Symbol	Plot Symbol	Definition
c <sub>pEB1</sub>	LHLS	coefficient of pressure measured on fuselage at left side of vertical tail
$c_{P_{E_{B_2}}}$	RHLS	coefficient of pressure measured on fuselage at right side of vertical tail
c <sub>p</sub> sc	PSC	carrier cavity pressure coefficient
c <sub>p</sub> s <sub>1</sub>	LHVERT	coefficient of pressure measured on left side of Orbiter strut
c <sub>p</sub> s <sub>2</sub>	RHVERT	coefficient of pressure measured on right side of Orbiter strut
$C_{Y}$	CY	side force coefficient
C.G.		center of gravity
C.R.		center of rotation
FRL		fuselage reference line
<sup>£</sup> o	IORB	Orbiter incidence relative to carrier FRL, deg.
r <sup>B</sup>	LREF	reference body length, in
МАСН	MACH	Mach number
M.R.C.	XMRP,YMRP ZMRP	moment reference center, in
MS		model station, in
P <sub>Bi</sub>		base pressure measured at station i, i=1,2,4, psia
$P_{EB_{1}}$		pressure measured on Orbiter fuselage surface on left side vertical tail/fuselage juncture, plia

Symbol	Plot Symbol	Definition
P <sub>EB2</sub>		pressure measured on Orbiter fuselage surface on right side vertical tail/fuselage juncture, psia
PS1		pressure measured on left side of Orbiter strut Sq, psia
P <sub>S2</sub>		pressure measured on right side of Orbiter strut S <sub>1</sub> , psia
q	Q(PSF)	freestream dynamic pressure, psf
RN/ET	RN/L	freestream unit Reynolds no., $10^6$ per foot
$\overline{V}$		mean freestream velocity, ft/sec
S	SREF	wing area or reference area, ft <sup>2</sup>
WL	Z	water line, in
X		longitudinal Orbiter separation distance, measured from nominal mated position, ft
X <sub>c</sub>	ХС	carrier longitudinal station, in
X <sub>MRP</sub>	XMRP	longitudinal location of MRC, in
Χo	хо	Orbiter longitudinal station, in
Υ		Orbiter lateral separation distance, measured from nominal mated position, ft
YC	YC	carrier lateral station, in
YMRP	YMRP	lateral location of MRC, in
Yo	Y0	Orbiter lateral station, in
Z		Orbiter vertical separation distance, measured from nominal mated position, ft
z <sub>C</sub>	ZC	carrier vertical station, in

Symbol_	Plot Symbol	Definition
Z <sub>MRP</sub>	ZMRP	vertical location of MRC, in
20	ZO	Orbiter vertical station, in
7/(AZ+10)	1/Z+10	separation parameter, inverse of vertical separation distance plus 10 ft, per foot
α	ALPHA	angle of attack, deg.
αC	ALPHAC	carrier fuselage angle of attack, $\alpha_{W}^{-2^{\circ}}$ , deg.
<sup>α</sup> 0	ALPHA0	Orbiter angle of attack, deg.
αW	ALPHAW	carrier wing angle of attack, $\alpha_c^+$ 2°, deg.
∝Wa]]	ALPWAL	wind tunnel wall correction to carrier angle of attack, deg.
β	BETA	angle of sideslip, deg.
₽C	BETAC	carrier sideslip angle, deg.
<sup>β</sup> 0	ветао	Orbiter sideslip angle, deg.
δ <sub>a</sub>	AILRON	aileron deflection angle, deg.
δ <sub>e</sub>	ELEVON	Orbiter elevon deflection angle, deg.
δe <sub>I</sub>	ELV-IB	inboard carrier elevator panel deflection angle, deg.
δeφ	ELV-OB	outboard carrier elevator panel deflection angle, deg.
δeγ	ELEVTR	carrier elevator deflection angle, deg.
δ <sub>r</sub>	RUDDER	carrier rudder deflection angle, dec.
δrL	RUD-L	carrier lower rudder panel deflection angle, deg.

Symbol	Plot Symbol	Definition
$^{\delta}r_{u}$	RUD-U	carrier upper rudder panel deflection angle, deg.
δ <sub>S</sub>		spoiler deflection angle, deg.
ΔCA	DCA	incremental axial force coefficient
$\Delta C^{D}$	DCD	incremental drag coefficient
$^{\Delta C}_{\ell_{\overline{B}}}$	DCBL	incremental body axis rolling moment coefficient
۵C ا	DCSL	incremental stability axis rolling moment coefficient
ΔCL	DCL	incremental lift coefficient
ΔC <sub>m</sub>	DCLM	incremental pitching moment coefficient
$\Delta C_{\eta_{\hbox{\footnotesize B}}}$	DCYN	incremental body axis yawing moment coefficient
$^{\Delta C}n_{S}$	DCLN	incremental stability axis yawing moment coefficient
ΔCN	DCN	incremental normal force coefficient
ΔC <sub>Y</sub>	DCY	incremental side force coefficient
ΔΧ	DX	Orbiter longitudinal separation distance from nominal mated position, ft
ΔΥ	DY	Orbiter lateral separation distance from nominal mated position, ft
ΔΖ	DZ	Orbiter vertical separation distance from nominal mated position, ft
Δα	DALFA	incremental angle of attack between Orbiter and carrier FRL, $\alpha_0$ - $\alpha_c$ , deg.

# NOMENCLATURE (Concluded)

Symbol	Plot Symbol	Definition
Δβ	DBETA	incremental angle of sideslip between Orbiter and carrier, $\beta_0$ - $\beta_C$ , deg.
Δφ	DPHI	incremental roll angle between Orbiter and carrier, deg.
ф	PHI	Orbiter roll angle, deg.
c <sub>LC</sub>	CL-C	carrier lift coefficient with test mounting system corrections
€DC	CD-C	carrier drag coefficient with test mounting system corrections
CinC	CLM-C	carrier pitching moment coefficient with test mounting system corrections
$c_{YC}$	CY-C	carrier side force coefficient with test mounting system corrections
C <sub>nBC</sub>	CYN-C	carrier body yaw moment coefficient with test mounting system corrections
c <sub>nSC</sub>	CLN-C	carrier stability yaw moment coefficient with test mounting system corrections
C <sub>LSC</sub>	CSL-C	carrier stability roll moment coefficient with test mounting system corrections
C <sub>&amp;BC</sub>	CBL-C	carrier body roll moment coefficient with test mounting system corrections
c <sub>Ac</sub>	CA-C	carrier axial force coefficient with test mounting system corrections
$c_{N_C}$	CN-C	carrier normal force coefficient with test mounting system corrections

#### REMARKS

The Orbiter axial force, measured during this test, exhibits the following trend:

- at low angles of attack, axial force decreases with incressing yangle of attack, as would normally be expected,
- at high angles of attack, axial force increases with increasing angle of attack, contrary to normal expectations.

Extensive investigations and analysis, conducted during the test, indicated that trend number (2) was not caused by model fouling or other test problems and was, indeed, representative of aerodynamic characteristics.

Vertical tail pressure instrumentation ( $P_{EB_1}$  and  $P_{EB_2}$ ) was disconnected during runs 588 through 599.

Configuration D (as described in figure 2f) was not at  $\phi = 90^\circ$ , as planned, because of support system deflections (caused by the Orbiter model touching strut S<sub>3</sub>).

### CONFIGURATIONS INVESTIGATED

The Orbiter model was an 0.030-scale representation of the Space Shuttle Orbiter VL70-000140A/B lines with modified OMS pods and elevons as shown in figure 2a. The basic Orbiter is a blended wing-body design with a double delta wing (75° and 45° leading edge sweeps). The Orbiter model was tested both with and without a tail cone fairing. The tail cone fairing covered the MPS nozzles, OMS nozzles, and base, as shown in Figure 3b. The Orbiter model was mounted in the tunnel using several blade strut configurations as follows:

 $S_1$  = Orbiter support blade strut, upper entry position,

 $S_2$  = Orbiter support blade strut, lower entry position,

 $S_3$  = Orbiter dummy support blade strut.

Figure 2f shows the strut arrangements. Orbiter elevon and aileron deflection angles were varied. The Orbiter was tested both isolated and in the presence of the carrier at various separation locations. The following Orbiter configurations were tested:

$$O_1 = B_{26} C_9 E_{43} F_8 M_{16}$$
  $W_{116} TC_{5.1}$   
 $O_2 = B_{26} C_9 E_{43} F_8 M_{16} N_{28} N_{24}$   $W_{116}$  (with strut  $S_1$ )  
 $O_3 = B_{26} C_9 E_{43} F_8 M_{16}$   $R_5 V_8 W_{116} TC_{5.1}$   
 $O_4 = B_{26} C_9 E_{43} F_8 M_{16}$   $W_{116} TC_{5.1}$   
 $O_5 = B_{26} C_9 E_{43} F_8 M_{16} N_{28} N_{24} R_5 V_8 W_{116}$   
 $O_6 = B_{26} C_9 E_{43} F_8 M_{16} N_{28} N_{24} R_5 V_8 W_{116}$  MPS cover plate off

## CONFIGURATIONS INVESTIGATED (Continued)

 $O_7 = B_{26} C_9 E_{43} F_8 M_{16} N_{28} R_5 V_8 W_{116}$  strut,  $S_2$  cover plate #1 off MPS  $O_8 = B_{26} C_9 E_{43} F_8 M_{16} N_{28} R_5 V_8 W_{116}$  strut,  $S_2$  cover plate #2 off MPS  $O_9 = B_{26} C_9 E_{43} F_8 M_{16} N_{28} N_{24} W_{116}$  (with strut  $S_2$ )

### where:

Component	<u>Description</u>
<sup>B</sup> 26	Orbiter fuselage per Rockwell lines VL70-000140A/B, model drawing SS-A01360
c <sub>9</sub>	Orbiter canopy per Rockwell lines VL70-000140A/B, model drawing SS-A01360
E <sub>43</sub>	Orbiter full-span, unswept hingeline, 6" gapped elevons per Rockwell lines VL70-000200, model drawing SS-A01360
F <sub>8</sub>	Orbiter body flap per Rockwell lines VL70-000200, model drawing SS-A01360
<sup>M</sup> 16	Orbiter OMS/RCS pods per Rockwell lines VL70-000203A, VL70-008401, model drawing SS-A01360
N <sub>24</sub>	Orbiter main propulsion system (MPS) nozzles - VL70-000140A, VL70-005030A, model drawing SS-A01360
N <sub>28</sub>	Orbiter OMS nozzles - VL70-000140A model drawing SS-A01360
R <sub>5</sub>	Orbiter rudder per Rockwell lines VL70-000146A, model drawing SS-A01360
TC <sub>5.1</sub>	Orbiter tail cone fairing which covers the MPS nozzles and the OMS nozzles and base, built by the Boeing Company, also used in CA5
v <sub>8</sub>	Orbiter centerline vertical tail per Rockwell lines VL70-000146A, model drawing SS-A01360
W <sub>116</sub>	Orbiter double delta wing per Rockwell lines VL70- 000200, model drawing SS-A01360

## CONFIGURATIONS INVESTIGATED (Continued)

Effects of simulated attach hardware were investigated using the following model components attached to the carrier.

Forward attach structure between the Orbiter and carrier model used for 
$$i_0$$
 of 3 to 10 degrees for  $\Delta Z = 0$  feet AT<sub>39</sub>

Aft attach structure between the Orbiter and carrier model for  $\Delta Z = 0$  feet

The carrier model was an 0.030-scale representation of the Boeing 737-100 aircraft with surface contours built to represent the 747 under loads it would experience with a 600,000 pound gross weight flying at Mach 0.86 at an altitude of 35,000 feet. The model also had a built in 0.64° leading edge up wing tip twist to compensate for model aeroelastic effects, which are estimated to produce a 0.64° leading edge down twist. The carrier had 200 square fcot tip fins on its horizontal tail. Spoilers were deflected to 45° and flaps were retracted during most of the test. Several runs were made with spoilers retracted. Elevator and rudder deflections were varied during the test. The carrier was tested both isolated and in the presense of the Orbiter at various separation conditions. Carrier configurations investigated were:

$$747/0 = B_{27.8} F_0 H_{15.6} M_{26}^{25} N_{58}^{57} T_{19} V_{9.1} W_{44.1}$$
  
 $747/1 = B_{27.8} F_0 H_{15.6} M_{26}^{25} N_{58}^{57} S_{1-12} T_{19} V_{9.1} W_{44.1}, \delta_S = 45^{\circ}$ 

where:

Component	<u>Description</u>
<sup>B</sup> 27.8	fuselage
Fo	all flaps retracted

## CONFIGURATIONS INVESTIGATED (Concluded)

H <sub>15.6</sub>	horizontal tail (H <sub>15</sub> ) with 200 ft <sup>2</sup> tip fins
M <sup>25</sup> . 26	inboard $(M_{25})$ and outboard $(M_{26})$ nacelle struts
N <sub>58</sub>	inboard ( $N_{57}$ ) and outboard ( $N_{58}$ ) nacelles
S <sub>1-12</sub>	12 spoiler panels located on wing upper surface, all deflected $45^{\circ}$
T <sub>19</sub>	flap track fairing
V <sub>9.1</sub>	vertical tail
W <sub>44.1</sub>	wing

Orbiter base pressures were measured, for configurations without tail cone, at locations as shown by figure 2c. Pressures were measured on both sides of Orbiter support strut when  $S_{\parallel}$  was used and pressures were measured on the fuselage near the vertical tail when the vertical tail was installed as shown by figure 2d. Pressures were measured in the Orbiter and carrier balance cavity.

### TEST FACILITY DESCRIPTION

The Boeing Transonic Wind Tunnel (BTWT) is a continuous flow, closed circuit, single return, atmospheric facility with the following characteristics:

Test Section F	low Parameters	Test Section Dimen	sions
Freestream Condition	Range	Description	Value
Mach number	0 thru 1.15	Cross-section (minus	,
Dynamic pressure, psia	0 thru 6.3	corner fillets), ft.	8 x 10
Static pressure, psia	15 to 5.4	Length, ft.	14.5
Stagnation pressure	atmospheric	Area, ft. <sup>2</sup>	88
Maximum unit Reynolds number, per foot	4 x 10 <sup>6</sup>		
Maximum total - temperature, °F	160		•

The test section can be operated with either solid or slotted walls.

The slotted wall configuration consists of 16 slots which can vary wall porosity from 8.5% to 11%.

Test data acquistion, recording, computations, and display are done by an XDS-9300 computer and Astro data sub-system.

#### DATA REDUCTION

Force and moment data were reduced in both body and stability axes using standard Boeing data reduction procedures. The following data reduction constants were used:

		Carri	<u>er</u>	<u>Orbiter</u>	
Symbol	Description	Model Scale	Full Scale	Model Scale	Full Scale
S	reference area, ft. <sup>2</sup>	4.950	5500	2.421	2690.0
þ	reference span, in	70.441	2348.04	28.100	936.68
Ē.	reference mac, in	9.833	327.78	14.244	474.81
MRC	moment reference center, in				
	XC or XO	40.197	1339.90	33.270	1109.0
	YC or YO	0.0	0.0	0.0	0.0
	ZC or ZO	5.723	190.80	11.250	375.0

No base or cavity corrections were applied to the data.

Wind tunnel data were interpolated versus the applicable separation parameters ( $\alpha_0$ ,  $\Delta Z$ ,  $\Delta X$ ,  $\alpha_W$ ,  $\Delta Y$ ,  $\beta_0$ ,  $\beta_C$ , and  $\phi$ ) as summarized by Table VII. These interpolated data were used to compute interference increments by subtracting isolated data from interference data as summarized by Table VIII. A special interpolation routine was used for datasets with simulated attach hardware as summarized by Tables IX and X. Interpolated carrier data were corrected for support surut tare and interference using corrections obtained during test CA5 as summarized by Table XI. Basic data, interpolated data, incremental data, and carrier data with tare and interference corrections, are presented in this report. Tables IV through VI describe data presentation formats.

#### REFERENCES

### Reports and Internal Letters

- Speed Letter, SAS/WTO/74-365, "Fabrication of a new 0.03-scale Orbiter Model," dated July 3, 1974
- IL, SAS/WTC/74-173, Addendum #1, "Updated Model Design Requirements for Model 45-0", dated July 24, 1974
- IL, SAS/WTO/74-173, Addendum #2, "Additional Requirements for Model 45-0," dated July 24, 1974
- IL, SAS/AERO/74-493, "Piggyback Separation Tests Orbiter Support Configurations and Corrections," dated August 9, 1974
- IL, SAS/AERO/74-552, "Orbiter Model Support and Instrumentation Requirements"
- IL, SAS/AERO/74-617, "Test Requirements for Separation Test CA20," dated August 20, 1974
- NA-74-541, "Structural Analysis of the 0.03-scale SSV model 45-0", dated July 23, 1974
- DMS-DR-2211, "Results of a 0.03-scale Aerodynamic Characteristics Investigation of a Boeing 747 Carrier (Model AX 1319 I-D) Mated with a Space Shuttle Orbiter (Model 45-0) conducted in the Boeing Transonic Wind Tunnel (CA5)", by 747 Aerodynamics, 747 Flight Controls, and Wind Tunnel Test Group, Boeing Aerospace Company

#### Drawings

### Rockwell International - SSV Orbiter

- SS-A01360 Modei Assy., 45-0, 0.03 Sc. SSV Orbiter (140A/B) Revision B, dated August 1, 1974
- SS-A01361- Model Instl. 45-0, 0.03 Sc. SSV Ferry Separation, Release 1, dated August 12, 1974
- SS-A01362 Blade Strut Assy., 0.03 Sc. 45-0 SSV Model, dated July 29, 1974

### The Boeing Company - 747 Carrier

- 65-69716 Model Assy., TE 1007 I-1, dated August 23, 1973
- 65-89585 Wing W44.1 AX 1319 I-1, dated August 1, 1974

## REFERENCES (Continued)

- 747-MD-572 Structural Arrangement Forward "A" Frame Support Orbiter 747 MOD, dated June 25, 1974
- 747-MD-461 General Arrangement 747 Space Shuttle Orbiter Carrier Aircraft (Piggyback Configuration), dated July 15, 1974
- 747-MD-576 Structural Arrangement Orbiter Aft Support, 747 MOD, dated August 1, 1974
- 1319-6, "Inbd Main Flap," dated 7-26-74
- 1319-15, "Wing Coves," dated 7-29-74
- 1319-24, "Outbd Fore-Flap," dated 8-5-74
- 1319-25, "Outbd Fore-Flap," dated 8-5-74
- 1319-33, "Inner Body Orbiter (Bal #660)" dated 8-13-74
- 1319-34, "Spoiler, dated 8-14-74

 $i^{\tau})$ 

- 1319-35, "Balance Holder Orbiter (Bal #660)" dated 8-14-74
- 1319-36, "Rear Mtg. Parts Orbiter," dated 8-28-74
- 1319-37, "Aft Support and Balance Adapter Assy. Orbiter," dated 8-28-74
- 1319-38, "Inbd Flap Assy 20° F8.1," dated 8-17-74
- 1319-39, "Inbd Flap Brkts 20° F8.1," dated 8-19-74
- 1319-40, "Setting Temp L.E. Flaps," dated 8-17-74
- 1319-47, "Outbd Flap Brkts 20° F8.2," dated 8-20-74
- 1319-42, "Outbd Flap Assy 20° F8.2," dated 8-20-74
- 1319-43, "Fwd Orbiter Support Parts & Assy," dated 8-21-74
- 1319-44, "L. E. Kruger & Flap Instl.," dated 8-21-74
- 1319-45, "BTWT Orbiter Alone Mtg Parts & Assy," dated 8-22-74
- 1319-47, "Template-Stabilizer Tip Fin," dated 8-22-74

## REFERENCES (Concluded)

- 1319-55, "Stabilizer Fins," dated 8-23-74
- 1319-57, "Stabilizer Fin Brkts," dated 8-24-74
- 1319-60, "Stabilizer Fin Instl," dated 8-26-74
- 1319-63, "Orbiter Modif, & Inner Body Instl," dated 8-29-74
- 1319-64, "Model Support Mat'l," dated 9-3-74
- D6-25552, "Model Geometry Estimated Loads and Stress Analysis, Model AX13181-1," dated 9-11-74

ST : CA20			DATE: 11-20-74
	TEST CON	DITIONS	
MACH NUMBER	REYNOLDS NUMBER	DYNAMIC PRESSURE	STAGNATION TEMPERATUR
MACH NOMBER	(per unit length)	(pounds/sq.ft.)	(degrees Rankine)
0.3	1.93 x 10 <sup>6</sup> /FT	126	548
0.48	2.81 x 106/FT	293	559
0.50	2.94 x 106/FT	315	555
0.60	3.30 x 10 <sup>6</sup> /FT	422	563
	· · · · · · · · · · · · · · · · · · ·		
· · · · · · · · · · · · · · · · · · ·			
	,		
·			<del>-</del>
	Orah i daya - DTUI	#660E 2 074 inch	dia
		T#660F 2.074 inch TExternal Balance	ula.
BALANCE UTILIZED:	CAPA	CITY	CUEFFICIENT
	Orbiter	Carrier	TOLERANCE:
NF	1780 lb.	10,000 lb.	
SF	1335 lb.	5,000 lb.	
AF	301.5 lb.	1,000 lb.	
PM	4266 in1b.	100,000 inlb.	
RM	<u>2014.5 inlb.</u>	25,000 in1b.	
YM	2014.5 in1b.	25,000 in1b.	
COMMENTS:			
COMMENTS.		÷	
		,	

574	577	.3 576 575	<u>0</u> 2	4	AX	<b>%</b>	€ <sub>0</sub>	do	Sa	Se	CONFIGURATION	ATA SET
574 574 6 0 579	577			_		0	-5	A	SECONDOCIO DICE			
574 3 0 579		575			and the supplemental property of		- 3	[3]	0	5	0, 5, 53	1001
574 3 0 579						0	0		0	5		m 02
3 0 579						0	0		0	5		03
579					11 0	0	0		0	5	•	04
	578					0	-5		0	5	02 52 53	05
604	580					0	0		0	5	. 4	06
THE CHARLEST STREET, S		603				0	-5		0	5	0,5,	07
614						0	0		0	0		08
615						0	0		-10	5		09
616		615				0	0		0	5		10
612			-			0	0	Ý	0	10		11
60			A			0	-5	10	0	5		12
606			1			0	-5	14	0	5		OF STREET, STR
617						-90	A	7.5	0	5	•	a management and the same
607						0	-5	3	0		025.	attended to the later of the la
600						0	0		0	THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN	0, 0,	-
610						0	0		-10	5		antiquine annial state of
608		•	TY	1	Y	0	0	1	0	5	•	
			+ - - - - - - - - - - - - -	Y	57	-90 0 0	<b>♠</b> -5 0 0	7.5	0 0 0 -10	5 5 0 <b>5</b>	V Oz Si	13 14 15 16 17 7 18

A de = 6,8,10,12,14,16,18 WINIMUM SEPARATION DISTANCE

26

		10
TABLE	11.	(Continued)

rest: (		-	TA SET/RU				RBI						MACHN	UMBERS	
DATA SET	CONFIGURATION	HIT	Se	Sa	8	do	€.	Ø0	ΔX	AY	42	,3	.48	, 5	.6
GN 019	0251		10	0		A	0	0	_		-				611
20	03 52		5	0	0		-5	O				597			595
121			5	0	0		0	0				592		593	594
22			5	0	0		0	0							591
2.3	4		5	0	15		0	0							589
24	O5 S2		5	0	0		-5	0							598
25			5	0	0		0	0							581
26	· ·		5	0	15		0	0							588
27	06 S2		5	0	0		0	0							582
28	07 52		5	0	0		0	0		1	200		HATTER OF	f in	583
29	08 52		5	0	0		0	0							584
30	1		5	0	0		0	0							585
31			5	0	0		0	0							586
32			5	0	0		0	0							587
V 33	Og Sz	+++	5	0	_	V	-5	0	4	1	1				599
1 55	09 32	111	111												
															7108
											1		<u> </u>		
, ,	13 19	25	31		37		43		9	55		61		67	
dind	وليون والورور	بلبيب			44		سبل	ш		44	ببند	10)	AR (1)	IENA	R (2)
a OR				OEFF	ICENT	\$									

TABLE II. (Continued)

DA	TA SET				CA	RRIL	R				ORB	172	2				MACHN	UMBERS	
DE	NTIFIER	CONFIC	GURATION	Q	€.	Sev	87	Se	Sa	Ø,	e.	90	ΔX	DY	75				.6
₹G	N034	74	7/1	4	1-5	9/3	0	-											853
$\overline{\gamma}$	~ 35				0	9/3	0			_			-	-					852
	36		1	T V	5	9/3	0						_	-		41 SS.5			854
	37	747	1101	5, 4	. 0	9/3	0	5	0	a	0	0	0	0	7.5				851
	38			4	4	9/3	0	5	0	10	0	0	0	0	7.5				850
7	39		1	4		9/3	0	5	0	10	0	0	0	10	7.5				848
•	1			19	<u> </u>	25		31		37	43	4				<b>阿尔巴拉姆</b>		67	

TABLE II. (Continued)

ES		CA20	1		RRI	ER				OLLATION		~4					9 ta 3	
	TA SET	CONFIGURATION	06		Sev	87	Se	Sa	MACH	€o.	00	ΔX	AY	75	8	12	16	
	1040	747/0 0,5,AT,AT	.0	0	9/3	Ø	5	0	.6	0	0	0	0	4	619			
Y	41		4	0	9/3	0	5	0	.6	0	0	0	0	14		621		•
1	42		8	0	0/3	0	5	0	.6	0	0	0	0	Ш			620	
Ħ	43	•	4	-5	0/3	DESCRIPTION OF THE PERSON NAMED IN	5	0	,6	-5	0	0	0	11		622		
ď		747/0 025/AT39AT39	4	-5	0/3	0	5	0	.6	-5	0	0	0			623		
	45	747/1 OSAT28 AT39	lo	0		0	5	0	.6	0	0	0	0		627			
	SANDARD AND SANDARD	( <del>17</del> /// O D 01/34/055	14	0	SECOND .	-	5	0	.6	0	0	0	0			625		
	46		8	0		-	5	0	.6	0	0	0	0				626	
	47	<b>.</b>	4	2000000	0/3		5	0	.6	-5	0	0	2	V		624		
	48		+	广	112		tř	-										
			╁	+	$\vdash$	-	+		+++									
			+	+	-	-	+		+++					1				
			+	╀	$\vdash$	-	+	+	++									
			+	+	+-	-	+	-			$\vdash$					,		
			4	+	-	-	-	+-					+					
			4	4	4-	-	+	-	+++				+	+	1			
			4	4	4-	-	4-	-	++			+		+				2.7
			4	4	4	-		-	++				+	+-				
				1	<u> </u>				1								67	
		7 13 15			25		31		37	43		19	55		61		1	
	11.1.	landanie.			سا		4		بب	سلب	111	111			ID	VAR (1)	IC'. A	R (2)
							•	COEFF	ICENTS				a bout		A STATE			

TABLE II. (Continued)

DATA SET		CONFIGURATION		CARRIER							ORBI	ER				. 0.0			
DE	NTIFIER	CONFIGO	AATION	OC.	e <sub>c</sub>	€6A	82	26	Sa	MACH	Co	90	AX	DY	75	6	10	14	
RGN049		747/1	0,5,	0	0	9/3	0	5		0.6	0	0	0	0	4	631	628	630	
	50			0	0	9/3	0	5	0	0.6	0	0	10	0		636	637	638	
	51			0	0	9/3	0	5	0	0.6	0	0	20	0		641	40	Contract Contract	
	52			4	0	93	Ö	5	0	0.6	0	0	0	0		632	646	647	
	53			4	0	0/3	0	5	0	0.6	0	0	10	0		635	694	693	
	54			4	0	0/3	0	5	0	0.6	0	0	20	0		642	677	HARMAN PARKS	
	55			8	0	9/3	0	5	0	0.6	0	0	0	0.		633	645	644	
	56			8	0	9/3	0	5	0	6.6	0	0	10	0		634	691	692	
	57			8	0	9/3	0	5	0	0.6	0	0	20	0		643	674	675	
	58			4	0	9/3	0	5	0	0.6	0	0	0	10			775	781	
	59			4	0	9/3	0	5	0	0.6	0	0	10	10			735	738	
	60			8	0	9/3	0	5	0	0.6	)	0	0	10			780	787	
	61			8	0	9/3	0	5	0	0.6	0	0	10	10			736	737	
	62			14	-5	9/3	0	5	0	0.6	0	0	0	0			649	648	
	63			4	-5	9/3	0	5	0	0.6	0	0	10	0			687	688	
	64			4	-5	0/3	0	5	0	0.6	0	0	20	0			670	671	
	65			8	- 5	0/3	0	5	0	0.6	0	0	0	0			650	651	
7	66	*		8	-5	0/3	0	5	0	0.6	0	0	10	0	Y		690	689	
	,	13	19			25		31		37	43	49		55		.61		67	
	11.11				1	٠		<b>西斯尼亚亚亚</b> 拉拉斯		CENTS		441		111	<u></u>	POTENTIAL DESIGNATION DE LA CONTRACTION DEL CONTRACTION DE LA CONT	AR 111	IC: AR	(2)

NASA-MSFC-MAF

TABLE II. (Continued)

DATA SET			$\top$	CA	RRI	ER				ORBIT	ER					10 E	egt.	
DENTIFIER	CONFIG	URATION	οų	ec.	Sev	8T	20	Sa	MACE	60	90	AX	DY	75	6	10	14-	
GN067	747/1	0,51	8	-5	9/3	0	5	0	0.6	0	0	20	0	A		673	200000000000000000000000000000000000000	
68			4	-5	%3	0	5	0	0.6	0	0	0	10			776	Charles and a	•
69			4	-5	0/3	0	5	0	0.6	0	0	10	10			739	District Street, Stree	475 (4)
70			8	-5	0/3	0	5	0	0.6	0	0	0	10			779	786	`~
71			8	-5	0/3	0	5	0	0.6	0	0	10	10			740	741	
72			4	5	°/3	0	5	0	0.6	0	0	0	10			777	783	
73			4	5	9/3	0	5	0	0.6	0	0	10	10			743	746	
74			8	Б	0/3	0	5	0	0.6	0	0	0	10			778	785	
75			8	5	9/3	0	5	0	0.6	0	0	10	10			744	745	
76			4	-5	9/3	0	5	0	0.6	0	7.5	0	.0			700	699	
77			4	-5	9/3	0	5	0	0.6	0	7.5	10	0			679	690	
78			8	-5	-	0	5	0	0.6	0	7.5	0	0			701	698	
79			8	-5	9/3	0	5	0	0.6	0	7.5	10	0			682	681	
80			4	-5	0/3	0	5	0	0.6	0	7.5	0	10			791	792	
81			4	-5	9/3	0	5	0	0.6	0	7.5	10	10			752	755	
82			8	-5		0	5	0	0.6	2	7.5	0	10		ح ک	798	797	
93			8	-5	4/3	0	5	0	5.6	1 2	7.5	10	10			753	754	
¥ 84		,	4	0	0/3	0	5	IJ	0.6	0	7.5	0	0	V		705	704	
											49		55		61		67	
7		3 19			25		31		37	43	ere se la						1	

31

TABLE II. (Continued)

	ST: C	HEV				RRI		/KU	N NU	WREK C	OLLATIO						or see	15/75	
	NTIFIER	CONFIG	URATION	-	G.	THE RESERVE THE PERSON NAMED IN	Sa	23	50	MACH	ORBI	do	ΔX	AY	A2	6	70	14	
25	N085	747/1	0,5,	14	0	9/3	0	5	0	0.6	0	7.5	10	0	A		686	685	
	86			8	0	93	0	5	0	0.6	0	7.5	0	0			702	703	
	87			8	0	9/3	0	5	0	0.6	0	7.5	10	0			683	684	
	88		NEW YORK	4	0	9/3	0	5	0	0.6	0	7.5	0	10			790	793	
	89			4	0	0/3	0	5	0	0.6	0	7.5	10	10			748	751	
	90			8	0	9/3	0	5	0	06	0	7.5	0	10			799	796	
	91			8	0	0/3	0	5	0	0.6	0	7.5	10	10			749	750	
	92			4	5	9/3	0	5	0	06	0	7.5	0	10			799	794	
	93			4	5	0/3	0	5	0	0.6	0	7.5	10	10			756	A AND DESCRIPTION OF	
	94			8	5	0/3	0	5	0	0.6	0	7,5	0	10			800	795	
	95			8	5	0/3	0	5	0	0.6	0	7.5	10	10			757	758	
	96		10 - 10	4	-5	43	0	5	0	0.6	-5	7.5	0	10			804	805	
	97			8	-5	9/3	0	5	0	0.6	-5	7.5	0	10			811	810	
	98	_ \ \ -		4	0	9/3	0	5	0	0.6	-5	7.5	0	10			903	806	
	99			8	0	0/3	0	5	0	0.6	-5	7.5	0	10			812	809	
	100			4	5	93	0	5	0	0.6	-5	7.5	0	10			802	-	
	101			8	5	9/3	0	5	0	0.6	-5	7.5	0	10			213	808	
1	1 102		7	4	15	9/3	0	5	0	0.6	-5	7.5	0	10	V			815	
		) j	19			25		31		37	43	49		55		61		67	
41	1111	<u> </u>	بلبيين	بب		سيا	44		<b>建心理型性的</b>		سلب	ىلىد	**	علم	~~	PHONE SHARE SHARE	11	عببا	4
	a OR			,4.4.					<b>建心理型性的</b>	CENTS			***			PHONE SHARE SHARE	AR (1)	ICLAR	12)

NASA-MSFC-MAF

TABLE II. (Continued)

DATA SET			T	CA	RRI	ER	B.,			ORBIT	TER					. 0	60 .	
IDENTIFIER	CONFIG	URATION.	o.	R	Sev	81	le.	80	Macu	Co	90	ΔX	DY	02	6	10	14	
RGN 103	747/1	0,5,	4	0	0/3	0	5	0	0.6	-5	7.5	0	10	A		1 1000	814	
104			4	-5	%3	0	5	0	0.6	-5	0	10	0		1 - A	830	935	
105			8	-5	9/3	O	5	0	0.6	- 5	0	10	0			841	836	A SHA
106			4	-5	9/3	O	5	0	0.6	-5	0	0	10			844		
107			4	-5	9/3	0	5	0	0.6	-5	0	10	10	. 6		819	820	
108			8	-5	9/3	0	5	0	0.6	-5	0	10	10			828	823	
109			4	0	9/3	0	5	0	0.6	-5	0	10	0			831	834	
110	7.71		8	0	9/3	0	5	0	0.6	-5	0	10	0			840	837	
111			4	0	0/3	0	5	0	0.6	-5	0	0	10			843		
112			4	0	9/3	0	5	0	0.6	-5	0	10	10			818	158	
113			8	0	0/3	0	5	0	0.6	-5	9	O	10				846	
114			8	0	9/3	0	5	0	0.6	_5	0	10	10			827	824	
115			4	5	93	0	5	0	0.6	-5	0	10	0			832	833	
116			8	5	OB	0	5	0	0.6	-5	O	10	0			839	838	
117	•		4	5	4/3	0	5	0	3.6	-5	0	0	10			845		
118			4	5	9/3	0	5	0	0.6	-5	0	10	10			-	855	
119			8	5	9/3	0	5	0	0.6	-5	O	10	10			826	852	
		V	4	-5	0	0	5	0	0.6	-5	0	0	10	Y		765	768	
¥ 120				STREET, SQUARE, SQUARE								ie Secondarius (C			<b>经国际企业</b>			

33

TABLE II. (Continued)

DATA S	ET			CA	RRIL	eR.				RBIT	ER	nervisia (pre			. 8	6	SO	
DENTIF	ER CONFI	GURATION .	O.	9	Sev	8.	Se	Sa	MACA	Co	90	DX	DY	143	6	10	14-	
SCNIS	1 747/1	0,51	8	-5	0	0	5	0	0.6	-5	0	0	10	4		766	- Control of the Cont	
12	2		4	0	0	0	5	0	0.6	-5	0	0	10		Genderson 6	-	764	
15	3		8	0	0	0	5	0	0.6	-5	0	0	10			762	763	
12	4		4	5	0	0	5	0	0,6	-5	0	0	10			769	- Charles and the state of	
12	5	7	8	5	0	0	5	0	0.6	-5	0	0	10				771	
12	6 747/1	025,	4	15	9/3	0	5	0	0.6	0	0	0	0			656		
15	7		4	-5	43	0	5	0	0.6	0	0	10	0		-	657		
12	8		4	-5	9/3	0	5	0	0.6	0	0	20	0			669		
15	9		4	0	9/3	0	5	0	0.6	0	0	0	0			652	653	
13	0		4	0	0/3	O	5	0	0.6	0	0	10	0			661	659	
13			4	0	0/3	0	5	0	0.6	0	0	20	0			665	666	
13	2		8	0	0/3	0	5	0	0.6	0	0	0	0			655	654	
13	3		8	0	0/3	0	5	0	0.6	0	0	10	0		. (	658	660	
13	4		8	0	0/3	0	5	0	0.6	0	0	20	0			836	667	
13	15		4	-5	9/3	0	5	0	0.6	0	0	O	10			728		
13	16		4	-5	9/3	0	5	Ú	0.6	0	0	10	10			732		
13	NECOS SINDIFERENCIAS CENTRAL DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DEL CONTRA DE LA CONTRA		4	0	0/3	0	5	Ü	0.6	0	2	0	10			727		
Y 13	8	7	4	0	43	0	5	0	0.6	0	0	10	10	V		731		
	,	13 19			25		31		37	43	49		55		61		67	

TABLE II. (Continued)

				T	CAL	RIE	R				ORBIT	ER					- 0	0	
	TIFIER	CONFIG	URATION	N STANSON	E.	- HALLMAN STATE	73	Se	Sa	MACH	60	Po	DX	AY	42	6		14-	
CN	139	747/1	0251	4	5	43	0	5	0	0.6	0	0	0	10	4		729		مر
٣	140			4	5	9/3	0	5	0	0.6	0	0	10	10			733	-	$\lambda_{-}$
T	141	747/1	0,51	4	0	10/13		5	0	0.6	O	0	0	0				708	
T	142			4	0	-1%-7	G	5	0	0.6	0	0	0	0			709	710	
T	143	1		14	\$25555000000000000000000000000000000000	43	15	5	υ	0.6	0	0	0	0			711	712	
T	144	747/1	025,	4	0	9/3	15	5	0	0.6	0	0	0	0			725		
十	145	AND DESCRIPTION OF ROOM	Wiles in convenience Autoparell Administrate Delication	4	0	0/3	0	0	0	0.6	0	0	0	0			719	720	
T	146			4	0	0/3	၁	10	0	0.6	0	0	.0	0			714	715	
$\dagger$	147			4	0	0/3	0	10	0	0.3	0	0	0	0			717		
Ħ	148			4	0	0/3	0	10	0	0.7	0	0	0	0			716		
4	149	V		4	0	0/3		5	-10	0.6	0	0	0	0	V		722	723	
				$\dagger$		1													
ı				†	T														
				$\dagger$	T														
					1														
				T	T														
				T	T														
				T	T														
			3 19			25		31		37	43	49		55		61		67	•
			3 19									NAME OF TAXABLE PARTY.				Lin		Luce	
4	1119		15/8/8/8/8/8		100		,,,,,,	c	OEFF	ICENTS						IDV	AR (II	IE: AR	(2)

# TABLE II. - DATA SET/RUN NUMBER COLLATION SUMMARY (Continued)

### Symbol Definition

#### Orbiter

01	-	Vertical tail off Tail cone on	(Vg) (TC5.1)	05	•	Vertical tail on ( Tail cone off	V <sub>8</sub> )
02	•	Vertical tail off Tail cone off with strut S <sub>1</sub>	(V <sub>8</sub> )	06	•	MPS base plate off Vertical tail on (	V <sub>8</sub> )
		Vertical tail on Tail cone on	(V <sub>8</sub> ) (TC <sub>5.1</sub> )	07	•	MPS base plate off, S2 cover plate #1 of Vertical tail on	f,
04	•	Tail cone on Vertical Tail simulating dummy strut	(TC <sub>5.1</sub> )			MPS base plate off, S <sub>2</sub> cover plate #2 of Vertical tail on	
						MPS base plate on, Vertical tail off with strut S <sub>2</sub>	

### Orbiter Support Strut

S<sub>1</sub> = Orbiter support blade strut, upper entry position

S<sub>2</sub> = Orbiter support blade strut, lower entry position

S<sub>3</sub> = Orbiter dummy support blade strut

### Carrier

747/0 = Carrier with spoilers and flaps retracted

747/1 = Carrier with spoilers deflected 45° and flaps retracted

### $\alpha$ , $\beta$ , and $\Delta Z$ Schedules

 $\triangle$   $\alpha_{c} = 0^{\circ}, 2^{\circ}, 4^{\circ}, 6^{\circ}, 8^{\circ}, 10^{\circ}$ 

 $\triangle$   $\beta_{C} = -10^{\circ}$ ,  $-7^{\circ}$ ,  $-5^{\circ}$ ,  $-3^{\circ}$ ,  $-2^{\circ}$ ,  $-1^{\circ}$ ,  $0^{\circ}$ ,  $+1^{\circ}$ ,  $+2^{\circ}$ ,  $+3^{\circ}$ ,  $+5^{\circ}$ ,  $+10^{\circ}$ 

 $\triangle$   $\alpha_0 = 6^{\circ}$ , 8°, 10°, 12°, 14°, 16°, 18°

# TABLE II. (Concluded)

$$\Delta$$
  $\Delta$ Z = 0°\*, 3°, 7.5°, 15°, 30°, 45°, 60°

$$\triangle$$
  $\beta_0 = 2.5^{\circ}, 0^{\circ}, -2.5^{\circ}, -5^{\circ}, -7.5^{\circ}, -10^{\circ}, -15^{\circ}$ 

\* minimum attainable

 $\{ \int f$ 

# Table III. - MODEL DIMENSIONAL DATA A. Carrier Model

MODEL COMPONENT: BODY - B27.8		
GENERAL DESCRIPTION: Body 74-7 Project	t with A.P.V.	
Model Scale: 0.03		
Drawing Number: 65-69716		
Dimensions:	Full Scale	Model Scale
Length, in	2702	31.06
Max. Width, in	<del></del>	7.66
Area		
Wetted, ft <sup>2</sup>		12.71

# Table IIIA - Continued.

MODEL COMPONENT:	Fo
GENERAL DESCRIPTION	Clean Wing
Fla	os Up

# Table IIIA - Continued

MODEL COMPONENT: <u>Horizontal Tail <sup>H</sup>l</u>	5.6	
GENERAL DESCRIPTION: Horizontal Tail v	with Vertical Fins on	each
Tip at Body B. L. 12.82		
Model Scale 0.03		
Drawing Number 1319-55 1/2 - 60		
Dimension:	Full Scale	Model Scale
EXPOSED DATA (one side)		
Area-ft <sup>2</sup>	200	

# Table IIIA - Continued.

MODEL COMPONENT: M25		
GENERAL DESCRIPTION: Inboard 747, JT9D	nacelle strut	
Model Scale: 0.03		
Dimensions	Full Scale	<u>Model Scale</u>
Wing B.L. of nacelle C <sub>L</sub> , in. Cont angle deg. inboard	470.0 2	14.100

MODEL COMPONENT: M26		
GENERAL DESCRIPTION: Outboard 747	, JT9D	
Strut		
Model Scale: 0.03		
Drawing Number: 937-590		
Dimensions	Full Scale	Model Scale
W L of C <sub>L</sub> , in Cant angle, deg inboard	2	<u>25.020</u> 2

# Table IIIA - Continued.

MODEL COMPONENT:	N <sub>57</sub>	
GENERAL DESCRIPTION_	Inboard Fan Cowl and Primary 747 Nacelle,	
Flow Through Typ	pe	
Model Scale: 0.03		
Drawing Number: S.O.	. 1007-96-97	

# Table IIIA - Continued

MODEL COMPONENT:	N <sub>58</sub>	
GENERAL DESCRIPTION	: Outboard Fan Cowl and Primary 747 Nacelle,	_
Flow Through Type	e	_
Model Scale: 0.	03	
Drawing Number S.O.	1.007-96,-97	

# Table IIIA - Continued.

MODEL COMPONENT: Spoilers S1-12	<del></del>	
GENERAL DESCRIPTION: Multi-panel fli	ght spoilers. Four outbo	pard and
two inboard spoiler per side. Subsc	ript denotes spoiler par	nel <sup>S</sup> l is
the most outboard L.H. panel and \$12	is most outboard R.H.	panel,
747 Model Scale: 0.03  Drawing No.: 65-71450, S.O. 1065-5	Model: 1065	
Dimensions: (One panel)	Full Scale Ft.	Model Scale IN.
Outboard $S_{1-4}$ and $S_{9-12}$ (Ft <sup>2</sup> )	21.48	0.019 ft <sup>2</sup>
Span (equivalent)	6.25	2.25
Chord	3.44	1.238
Inboard $S_{5-6}$ and $S_{7-8}$ (Ft <sup>2</sup> )	35.31	
Span (equivalent)	7.50	2.70
Chord	4.71	1.696

# Table III A - Continued

1)

MODEL COMPONENT: T19	· · · · · · · · · · · · · · · · · · ·
GENERAL DESCRIPTION: Flap Track Fairings,	
4 on each side	
Model Scale: 0.03	
Drawing Number: S.O. 1007-403	

DIMENSIONS	Full Scale	Model Scale
WBL of Track no. 1, in. 2, in. 3, in. 4, in	235.3 353.0 652.0 743.6	7.06 10.59 19.56 22.31
Distance from wing Trailing edge to:	50.0	1.5

Track Trailing

edge, in.

# Table IIIA - Continued.

MODEL COMPONENT: Vertical V9.1		<del></del>
GENERAL DESCRIPTION: Swept Vertical Tail		
Model Scale: 0.03		
Drawing Number: 65-6.9716; 1007-26,-610; 937-3	19	
<u>Dimensions:</u>	Full Scale	Model Scale
TOTAL DATA		5.67
Area (Theo) Ft <sup>2</sup>	630.0 386.5	.567 11.595
Span (theo) - In.	380.3	11.050
Sweep-Back Angles, Degrees  Leading Edge	50.12	50.12
Chords: 55		
Root (Theo) WP-in. Tip (Theo) WP-in. Cus. Sta. of .25 MAC	461.67 157.0 2529.6	13.85 4.71 75.888

# Table IIIA - Continued.

MODEL COMPONENT: WING-W44.1		
GENERAL DESCRIPTION: Swept 747 Wing		
Model Scale: 0.03		
Test No.	DWG. No. 65-89585	
Dimensions:	Full Scale	Model Scale
Total Data		
Area (Theo.) Ft <sup>2</sup> Planform	5500	4.95
Span (Theo In.	2348.04	70.441
Aspect Ratio	6.96	6.96
Incidence Angle, degrees	7	7
Chords:		
MAC	327.78	9.831
Fus. Sta. of .25 MAC	1339.90	40.197
W.P. of .25 MAC	190.80	<b>5.72</b> 3

MODEL COMPONENT: ATTACH STRUCTURE - AT 38

GENERAL DESCRIPTION: Orbiter to carrier forward attach

struts. .

MODEL SCALE: 0.030

DRAWING NO.: BOEING 1319-43

	SCAL	E
DIMENSIONS:	FULL	MODEL
AT <sub>38</sub>	15.5	0.465
AT38.1	91.67	2.75
AT <sub>38.2</sub>	75.00	2.25
A'T <sub>38.2</sub> A	75.0	2.25
AT38.3	HOD REMOVED	ROD REMOVED

#### TABLE IIIA - Concluded.

MODEL COMPONENT: ATTACH STRUCTURE - AT 39

GENERAL DESCRIPTION: Orbiter to carrier aft attachment, pitch

adjustable from 0 to 10 deg.

MODEL SCALE: 0.030

DRAWING NO.: Boeing 50 1319-37.

DIMENSIONS:	FULL SCALE	MODEL SCALE
Pivot location:		
In., X <sub>C</sub>	400.0	12.0
In., Z <sub>C</sub>	160.7	4.821
Equivalent Span (At 0 deg iorb):		
Centerline orbiter	521.0	15.63

# TABLE III MODEL DIMENSIONAL DATA B. Orbiter

MODEL COMPONENT : BODY - B26	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	
GENERAL DESCRIPTION: Configuration 14	0A/B orbiter f	uselage.
NOTE: B26 is identical to B24 except unde	rside of fusela	ge has been
refaired to accept W <sub>116</sub> .		
MODEL SCALE: 0.030 MODEL	DWG: SS-A00	147, Release 12
DRAWING NUMBER: VL70-000143B, -000 VL70-000140A, -00	)200, -000205, 0140B	-006089, -000145
DIMENSIONS:  Length (OML: Fwd Sta X <sub>0</sub> =235), In	FULL SCALE	MODEL SCALE 38.799
Length (IML: Fwd Sta X <sub>0</sub> =238), In		38.709
Max Width (At $X_0 = 1528.3$ ), In.	264.0	7.920
Max Depth (At $X_0 = 1464$ ), In.	250.0	7.500
Fineness Ratio	0.264	0.264
Area - Ft <sup>2</sup>		
Max. Cross-Sectional	340.88	0.307
Planform		•
Wetted		
Base		

MODEL COMPONENT : CANOFIT - 09		
GENERAL DESCRIPTION :Configuration	3A. Canopy us	sed with fuselage B26
MODEL SCALE: 0.030 MODEL	DEL DWG: SS-	A00147, Release 12
DRAWING NUMBER: VL70-000143A		
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length $(X_0 = 434.643 \text{ to } 578)$ , In.	143,357	4.301
Max Width (At $X_0 = 513.127$ ), In.	152.412	4.572
Max Depth (At $X_0 = 485.0$ ), In.	25.00	0.750
Fineness Ratio		
Area		
Max. Cross—Sectional		
Planform		
Wetted		
Base		

MODEL COMPONENT: SLOTTED ELEVON (6 II	NCH GAP) - E	
GENERAL DESCRIPTION: Configuration 140A/B		
NOTE: E43 is a slotted version of E26.	Data are for one	side.
MODEL SCALE: 0.030		
DRAWING NUMBER: VL70-000200,	-006089, -006092	2
DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area - Ft <sup>2</sup>	210,00	<b>0.</b> 189
Span (equivalent) , In.	349.2	10.476
Inb'd equivalent chord , In.	118.004	3.540
Outb'd equivalent chord, In.	55. 192	1.656
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2096	<b>0.20</b> 96
At Outb'd equiv. chord	0.4004	0,4004
Sweep Back Angles, degrees		
Leading Edge	0,00	0.00
Tailing Edge	-10.056	-10.056
Hingeline (Product of Area & c)	0.00	0.00
Area Moment (Novmanix to xhthngex time), Ft	1587. 25	0, 043
Mean Aerodynamic Chord, In.	90.7	2. 721

MODEL COMPONENT : BODY FLAP - F8			
GENERAL DESCRIPTION :Configuration 140A/B orbiter body flap			
NOTE: Hingeline located at X = 152	$28.3, Z_0 = 284.$	3	
MODEL SCALE: 0.030 MODEL DWG: SS-A00147, Release 12			
DRAWING NUMBER: VL70-000140A, -000145			
		• .	
DIMENSIONS :	FULL SCALE	MODEL SCALE	
Length (X <sub>o</sub> =1520 - 1613) In.	93,00	2.79	
Max Width , IN.	262,00	7.86	
Max Depth ( $X_0 = 1520$ ), In.	23.00	0.69	
Fineness Ratio			
Area - Ft <sup>2</sup>			
Max. Cross-Sectional			
Planform	150.525	0,1355	
Wetted			

Base

41.847

0.0377

MODEL COMPONENT : OMS POD - M16				
GENERAL DESCRIPTION: Configuration 140C				
Orbiter OMS pod - Short pod				
		:		
MODEL SCALE: 0.030				
DRAWING NUMBER:	410			
	•			
DIMENSIONS:	FULL SCALE	MODEL SCALE		
Length (OMS Fwd Sta. X <sub>o</sub> =1310.5	) 258.50	7.755		
Max Width (At $X_0 = 1511$ ), In.	136.8	4.104		
Max Depth (At $X_0 = 1511$ ), In.	74.70	2.241		
Fineness Ratio	2.484	2.484		
Area - Ft <sup>2</sup>				
Max. Cross—Sectional	58.864	0.053		
Planform				
Wetted				
Base		H		

(\_)

MODEL COMPONENT: MPS NOZZLES - N24	•
GENERAL DESCRIPTION: Configuration	140A/B orbiter MPS nozzles
0.020	MODEL DWG: SS-A00147, Release 12
MODEL SCALE: 0.030	MODEL DWG. 55-110011, Receded 11
DRAWING NUMBER: VL70-005030A, -00	0140A
DIMENSIONS:	FULL SCALE MODEL SCALE
MACH NO.	
Length - In. Gimbal Point to Exit Plane Throat to Exit Plane	$\begin{array}{c cccc}  & 157.00 & 4.71 \\ \hline  & 99.2 & 2.976 \end{array}$
Diameter - In. Exit Throat Inlet	91.00 2.73
Area - ft <sup>2</sup> Exit Throat	45.166 0.0407
Gimbal Point (Station) In. Upper Nozzle  Y Z	$ \begin{array}{c cccc} 1445.00 & 43.35 \\ \hline 0.0 & 0.0 \\ \hline 443.00 & 13.29 \end{array} $
Lower Nozzles {     Y     Z	$ \begin{array}{rrrr}         & 1468.170 & 44.045 \\         & \pm 53.00 & \pm 1.59 \\         & 342.640 & 10.279 \end{array} $
Null Position - Deg. Upper Nozzle Pitch Yaw	16 16 0 0
Lower Mozzle Pitch Yaw	$   \begin{array}{ccc}     10 & 10 \\     \hline     3,5 & 3,5   \end{array} $

MODEL COM	PONENT: O	MS NOZZLES <u> </u>	3		
GENERAL D	ESCRIPTION:	Configuration 140	0A/B orb	iter OMS No	ozzles
			<del>()</del>		
MODEL SCA	<del> </del>			·	7.46
DRAWING N	UMBER: V	L70-000140A (Loca	tion), SS.	-A00106, Re	elease 5 (Contour
DIMENSION	S:			FULL SCALE	MODEL SCALE
MACH	NO.	`			
	h - In. Simbal Point Chroat to Exi	to Exit Plane t Plane			4000
i T	ter - In. Exit Throat Inlet				
F	- ft <sup>2</sup> Exit Throat				
	il Point (Sta	tion) In.			
	х́о Ү 28			1518.00 -88.0 492.0	45.54 -2.64 14.76
Right 1	Komen Nozzles X o Y o Z o	ORIGINAL PAGE OF POOR QUALIT	IS .	1518.0 88.0 492.0	45.54 2.64 14.76
	Position - I POSEY Nozzle Pitch Yaw		13 <sup>0</sup> 17 Out	±8 b <mark>'d, 2 <sup>0</sup>30' I</mark> n	±8 b¹d Same
Right	kxxxx Nozzle Pitch Yaw	1 57		_±8 tb!d, 2 <sup>0</sup> 17!	±8 Inb <sup>1</sup> d

MODEL COMPONENT: RUDDER - R5		
GENERAL DESCRIPTION: Configuration 140C configuration 140A/B rudder)	orbiter rudder (ide	entical to
		· · · · · · · · · · · · · · · · · · ·
MODEL SCALE: 0.030		
DRAWING NUMBER: VL70-000146B,	-000095	· · · · · · · · · · · · · · · · · · ·
DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area - Ft <sup>2</sup>	100, 15	0.090
Span (equivalent), In.	201.00	6. 03
Inb'd equivalent chord, In.	91.585	2. 748
Outb'd equivalent chord, In.	50.833	1.525
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	**************************************	
Tailing Edge	26. 25	26. 25
Hingeline (Product of area and $c$ )	34.83	34. 83
Area Moment (Norme) $\times$ to $\times$	610.92	0.0165
Mean Aerodynamic Chord, Inches	73.2	2. 196

MODEL COMPONENT : ORBITER T	AILCONE - TC <sub>5</sub>	.1	
GENERAL DESCRIPTION: Fairing mou	nted on orbiter f	uselage base f	
MODEL SCALE: 0.030			
DRAWING NUMBER: Boeing Dwg No.:	1319-71		
DIMENSIONS :	FULL SCALE	MODEL SCALE	
Length	445,83	13.375	
Max Width	303,33	9.10	
Max Deptox Height	265.00	7.95	
Fineness Ratio	·		
Area - Ft <sup>2</sup> Projected frontal area Max. Cross-Sectional	324.105	0.2917	
Planform	· · · · · · · · · · · · · · · · · · ·		
Wetted	<del></del>	<del></del>	
Base			

MODEL COMPONENT: VERTICA	AL - V8			
GENERAL DESCRIPTION:	Configuration	140A/B orbite	vertical t	ail
MODEL SCALE: 0.030		MODEL DWG:	SS-A00148	Release 6
DRAWING NUMBER: VL70	-000146A			
DIMENSIONS:		FU	LL SCALE	MODEL SCALE
TOTAL DATA	`			*
Area (Theo) - Fi Planform Span (Theo) - In Aspect Ratio Rate of Taper Taper Ratio Sweep-Back Angle Leading Edg Trailing Ed 0.25 Elemen Chord: Root (Theo) Tip (Theo) MAC Fus. Sta. o W.P. of .25 B.L. of .25	es, Degrees. e ge t Line MP MP f .25 MAC	20 14	13. 253 15. 720 1. 675 0. 507 0. 404 45. 000 26. 25 11. 13 68. 50 08. 47 99. 81 63. 35 35. 52 0. 00	0.372 9.472 1.675 0.507 0.404 45.000 26.25 41.13 8.055 3.254 5.994 43.901 19.066 0.00
Trailing We Leading Edg	lge Angle - D edge Angle -	Deg	10.00 14.92 2.00	10.00 14.92 0.060
Void Area Blanketed Area		_	0.00	0.00

MODEL COMPONENT: WING-W116		· ·
GENERAL DESCRIPTION: Configuration 4	V.	
NOTE: Identical to W, 14 except airfoil thickness.	Dihedral ang	le is along
trailing edge of wing. Geometric twist =		
MODEL SCALE: 0.030		
TEST NO.	DWG. NO. VL	70-000140A, -000200
DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area (.neo.) Ft2 Planform Span (Theo In. Aspect Ratio Rate of Taper Taper Ratio Dihedral Angle, degrees Incidence Angle, degrees Aerodynamic Twist, degrees Sweep Back Angles, degrees Leading Edge Trailing Edge 0.25 Element Line Chords: Root (Theo) B.P.O.O. TiD, (Theo) B.P. MAC Fus. Sta. of .25 MAC W.P. of .25 MAC EXPOSED DATA Area (Theo) Ft2 Span, (Theo) In. BP108 Aspect Ratio Taper Ratio Chords Root BP108 Tip 1.00 b MAC Fus. Sta. of .25 MAC W.P. of .25 MAC W.P. of .25 MAC Airfoil Section (Rockwell Mod NASA) XXXX-64	2690.00 936.68 2.265 1.177 0.200 3.500 0.500 45.00 -10.056 35.209 689.24 137.85 474.81 1136.83 290.58 182.13 1751.50 720.68 2.059 0.245 562.09 137.85 392.83 1185.98 294.30 251.77	2. 421 28. 10 2. 265 1.177 0. 200 3. 500 0. 500 45. 00 -10. 056 35. 209 20. 677 4. 136 14. 244 34. 105 8. 717 5. 464 1. 576 21. 620 2. 059 0. 245 16. 863 4. 1.36 11. 785 35. 579 8. 829 7. 553
Root b =  Tip b =	0,113	0.113
Data for (1) of (2) Sides  Leading Edge Cuff Planform Area Ft2  Leading Edge Intersects Fus M. L. @ Sta  Leading Edge Intersects Wing @ Sta	113.18 500.00 1024.00	0. 102 15. 00 30. 72

61

# Table IV. CA20 DATASET DESCRIPTION (Raw Data)

DATASET TYPE	DESCRIPTION
RGNXXX	Longitudinal coefficient schedule for 747 carrier balance data which contain "standard" wind tunnel corrections.
AGNXXX ·	Lateral coefficient schedule for 747 carrier balance data which contain "standard" wind tunnel corrections.
BGNXXX	Longitudinal coefficient schedule for orbiter balance data which contain "standard" wind tunnel corrections.
CGNXXX	Lateral coefficient schedule for orbiter balance data which contain "standard" wind tunnel corrections.
DGNXXX	Pressure coefficient data as follows:  Q(PSF) - dynamic pressure, psf PB1, PB2, PB3 - orbiter base pressure coefficients PCAV - orbiter cavity pressure coefficient PSC - carrier cavity pressure coefficient LHLS, RHLS - left and right hand pressure coefficients in proximity to orb. vert. tail for blade/sting support system.  LHVERT, RHVERT - identical to LHLS and RHLS but for base sting support system.

Table V.
CA20 COEFFICIENT SCHEDULE
(Raw Data)

			•	1, 1	Raw Dat	a)		4 (1)					• • •
Dataset								Coeffi	cients	-			
Type	Dataset-Sequence	1st ID	2nd ID	1	2	3	4	5	6	7	8	9	10
RGNXXX	034-036	MACH	ALPHAW	BETA	Q(PSF)	CL	CD	CLM .	. CY	CLN.	CSL		
	037	MACH	ALPHAO	ALPHAW	BETA	DY	DZ	CL	CD	CLM	СУ	CLN	CSL
	038 & 039	MACH	BETA	ALPHAW	ALPHAO	DY	DZ	CL.	CD	CLM	CY	CLN	CSL
	040-149	ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAW	ВЕТА	CL	CD	CLM
AGNXXX	040-149	ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAW	BETA	СУ	CLN	<b>C</b> SL
BGNXXX	001-011 & 015-033 & 037	MACH	ALPHAO	BETAO	РНІ	Q(PSF)	CL	CD	CLM	ĆY	CLN	CSL	
	012 & 013	MACH	DZ	ALPHAO	ВЕТАО	PHI	Q(PSF)	CL	CD	CLM	CY	CLN	CSŁ
	014	MACH	BETAO	ALPHAO	PHI	Q(PSF)	CL	CD	CLM	СУ	CLN	ĆSL	
	038 & 039	MACH	BETA	ALPHAW	ALPHAO	DY	DZ	CL	CD	CLM	CY	CLN	CSL
	040-149	ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAW	BETA	CL	CD	CLM
CGNXXX	040-149	ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAW	ВЕТА	CY	CLN	CSL
DGNXXX	001-011 & 015-019 & 037	MACH	ALPHAO	Q(PSF)	PB1	PB2	PB4	LHLS	RHLS	PCAV			<u> </u>
	012 & 013	MACH	DZ	Q(PSF)	PB1	PB2	P84	LHLS	RHLS	PCAV			-
	014	MACH	BETAO	Q(PSF)	PB1	PB2	P84	LHLS	PHLS	PCAV			<u>.</u>
	020-033	MACH	ALPHA0	Q(PSF)	PB1	PB2	P84	LHVERT	RHVERT	PCAV			1
	<b>034-</b> 036	MACH	ALPHAW	PSC					, i	· · · · ·			
	038 % 039	MACH	ВЕТА	Q(PSF)	PB1	PB2	PB4	LHLS	RHLS	PCAV			
	040-149	ALPHAO	DZ	Q(PSF)	PBI	PB2	PB4	LHLS	PHLS	PCAV			

Note: ID--Inc-sendent variable

# Table VI CA20 DATASET DESCRIPTION (INTERPOLATED/INCREMENTED DATASETS)

DATASET	DESCRIPTION
MGNXXX	Interpolated data for 747 carrier balance data in carrier reference dimensions.
NGNXXX	Interpolated data for orbiter balance data in orbiter reference dimensions.
UGNXXX	Incremental data - 747 carrier data in presence of orbiter (mated) minus 747 carrier alone data in 747 carrier reference dimensions.
VGNXXX	Incremental data - Orbiter data in presence of 747 carrier (mated) minus orbiter alone data in orbiter reference dimensions.

NOTE: Datasets M, N, U, and V contain the full  $\Delta Z$  array of 0  $\frac{3}{2}$   $\frac{7.5}{15}$   $\frac{15}{30}$   $\frac{40}{40}$  and  $\frac{60}{10}$  ft. Therefore, the datasets reflect extrapolations for some individual test arrays of  $\Delta Z$ . For subsequent data plotting, the full  $\Delta Z$  arrays were truncated to the actual tested arrays.

#### Table VII. CA20 INTERFOLATED DATASET SUMMARY

(M)	AND	N	DATASETS)	

1.7		(11 MID II DATASLIS)
	DATASET(S)	INTERPOLATED VARIABLES (1) (2)
	NGN001 → 011	MACH, ALPHAO
	NGN012 → 013	MACH, DZ
	NGNO14.	MACH, BETAO
	NGNO15 → 033	MACH, ALPHAO
	MGN034 → 036	MACH, ALPHAW
	MGN037 NGN037	MACH, ALPHAO
	MGN038 → 039	MACH, BETAC
	MGN040 NGN040 → 048	ALPHAO, DZ (SEE NOTE 3)
	MGN049 NGN049 → 119 MGN126 NGN126 → 140	ALPHAO, DZ, DX, ALPHAW, DY, BETAO, BETAC, PHI
	MGN141 → 149	ALPHAO, DZ
	MGN120 NGN120 + 125	ALPHAO, DZ, BETAC, ALPHAW

#### NOTES:

### (1) Interpolation procedure:

Number of Values Available for Interpolation	Interpolation Procedure
· 1	Substitute actual test value with a nominal test value (Note 3 below)
2 3 4 → ∞	Straight line Parabolic spline fit Cubic spline fit

BETA = BETAC

(3)
Interpolation was versus DZ and ALPHAO; however, since each of these datasets (40 → 48) has only one ALPHAO there was therefore no ALPHAO interpolation. The recorded test ALPHAO was replaced with a nominal test ALPHAO (i.e., 8, 12, or 16) so that the only interpolation was versus DZ.

(4)
Interpolation on DX was not performed on all datasets due to large data fluxuations from the nominal condition.

# (INTERFERENCE) - (ISOLATED)

BASE DATASET	VEHICLE	BETAC, deg.	ND V DATASET ALPHAW, deg.	BETAO, deg.	ELEVON, deg.	AILRON, deg.	
MGN034	CARRIER (1)	-5   	0 4 8	NA 	NA	NA	
MGN035		 0	0 4 8				
MGN036		5 <b>↓</b>	0 4 8	ľ	<b>1</b>		
NGN007 NGN010 NGN008 NGN011 NGN009 NGN018	ORBITER-0 <sub>1</sub> S <sub>1</sub> (2)  ORBITER-0 <sub>2</sub> S <sub>1</sub> (2)	NA	NA   	-5 0	5 5 0 10 5	-10	

### NOTES:

(1) ALPHAW Sweep (0, 4, 8°)

(2) ALPHAO Sweep (6, 8, 10, 12, 14, 16, 18)

(3) Procedure - (a) Interpolate base datasets to various nominal  $\alpha$  and  $\beta$  combinations.

(b) Subtract appropriate interpolated base dataset from interpolated separation (mated) data; except for datasets 45 thru 48 which were utilized to provide the increment due to attach hardware as follows:

Resulting Dataset Number	First Dataset Number	Second Dataset Number
UGN045	MGNO45	MGN049 @ ALPHA0 = 8
YGN045	NGNO45	NGN049 @ ALPHA0 = 8
UGNO46	MGN046	MGN052 @ ALPHA0 = 12
VGNO46	NGN046	NGN052 @ ALPHA0 = 12
UGN047	MGNO47	MGN055 @ ALPHAO = 16
VGN047	NGNO47	NGN055 @ ALPHAO = 16
UGN048	MGN048	MGN046
VGN048	NGN048	NGN046

INCREMENT = (First Dataset) - (Second Dataset)

Datasets 45 thru 48 interpolated per note (3) on "Interpolated Dataset Summary". Datasets 49, 52, and 55 interpolated versus ALPHAO, DZ, DX, ALPHAW, DY, BETAO, BETAC, PHI.

Table IX. SPECIAL INTERPOLATION FOR CONFIGURATIONS WITH ATTACH HARDWARE

RESULTANT DATASET SGNO 1		CONFIGURATION	INPUT DATASETS βο = 0°, βc = 0°					
CARRIER	ORBITER		aM aO	8° 2°	12° 6°	16° 10°		
A	В	747/0 0 <sub>1</sub> S <sub>1</sub> AT <sub>38</sub> AT <sub>39</sub>		40	41	42		
E	F	747/1 0 <sub>1</sub> S <sub>1</sub> AT <sub>38</sub> AT <sub>39</sub>		45	46	47		
I	J	747/1 0 <sub>1</sub> S <sub>1</sub>		49				
K ·	L	747/1 0 <sub>1</sub> S <sub>1</sub>			52			
м	N	747/1 01 S1				55		
			α,	= 12°	, a <sub>W</sub> =	5.83°		
			β <sub>0</sub> β <sub>C</sub>	-5° -5°	0°			
С	D	747/0 01 S1 AT38 AT39		43	41			
G	н	747/1 0 <sub>1</sub> S <sub>1</sub> AT <sub>38</sub> AT <sub>39</sub>		48	46			

### NOTES:

- (1) Orbiter data were interpolated versus  $\alpha_0$  and  $\Delta Z$
- (2) Carrier data were interpolated versus  $\alpha_W$  and  $\Delta Z$
- (3) The interpolation assumes a constant incidence angle between Orbiter and Carrier even though they were mounted on separate support systems (see Configuration A, in Figure 2F).
- (4) Resultant datasets SGNO \_\_ 1 have both lateral and longitudinal coefficient data.

Table X.

SPECIAL INTERPOLATED INCREMENTS FOR CONFIGURATIONS WITH ATTACH HARDWARE

•		INPUT DATASETS							
· DESI	ILTANT		$o = 0^{\circ}$						
	ASET	α <sub>O</sub>	8°	12°	16°				
ONI	Note to	α <sub>W</sub>	2*	6 °	10				
CARRIER	ORBITER								
WGNR45	XGNB45		45- 49	ř.	·				
WGNR46	XGNB46			46-52					
WGNR47	XGNB47				47-55				
•		α <sub>0</sub> = 12°, α <sub>W</sub> = 5.83°							
WGNR48	XGNB48	·	49	3-46					
WGNR43	XGNB43		43	3-41	÷				
WGNRDB ·	XGNBDB	(4	48, 46)	- (43, 4	1)				
			$\beta_0 = 0^\circ$	$\beta_{\rm C} = 0$	0				
WGNRCA	XGNBCA	(45,	46, 47)	- (40, 4	1, 42)				

NOTE: Resultant datasets have incremental lateral and longitudinal coefficient data.

Table XI. CARRIER SUPPORT STRUT TARE AND INTERFERENCE CORRECTION PROCEDURE

a, deg.	β <b>, deg.</b>	CA5 Run with Image Strut	CA5 Run without Image Strut
	0	15	99
2		20	104
6		23	108
8		27	112

$$α_W = β_D = 3° → 16°, 1° increments$$

$$β = 2° = -12°, -10°, -8°, -6°, -4° -3° -2°,$$

$$-1°, 0°, 1°, 2°, 3°, 4°, 6°, 8°, 10°, 12°$$

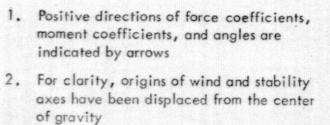
$$A_{Dun with } A_{Dun without } A_{Dun without$$

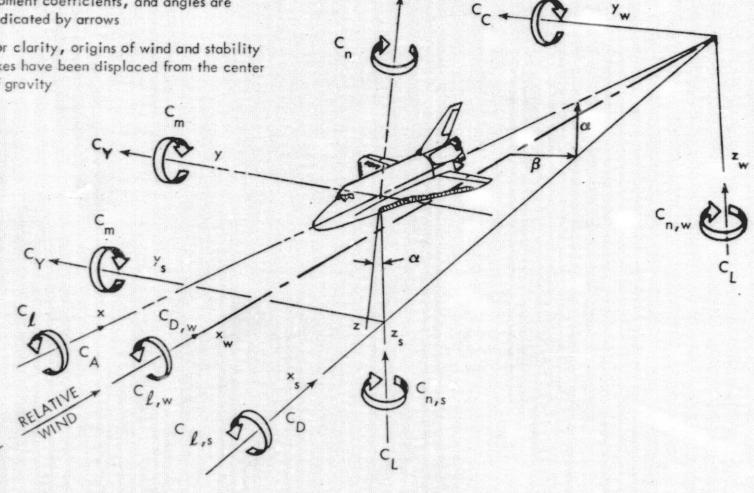
"Correction" datasets are 6GMDA4, 6GMDB4 and 6GMDC4, which were interpolated for  $\alpha_W$  = 2° to 12° and  $\beta$  = -5°, 0°, +5°, respectively.

"Corrected" datasets are 5GN034-149. For the DZ and  $\alpha_0$  sweeps (2nd independent variable), the "correction" is a constant value for all coefficients. For the  $\alpha_W$  and  $\beta$  sweeps (2nd independent variable), the "correction" is a function of  $\alpha_W$  and  $\beta$ , respectively.

### Note:

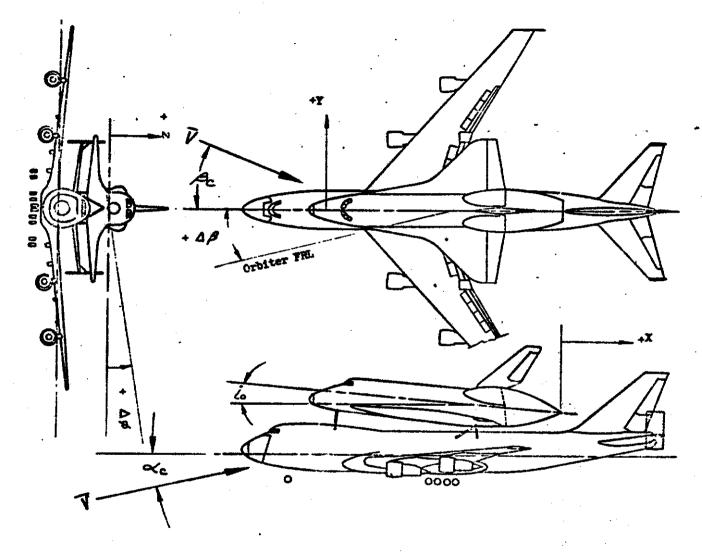
"Correction: and "corrected" data are shown in the Appendix.



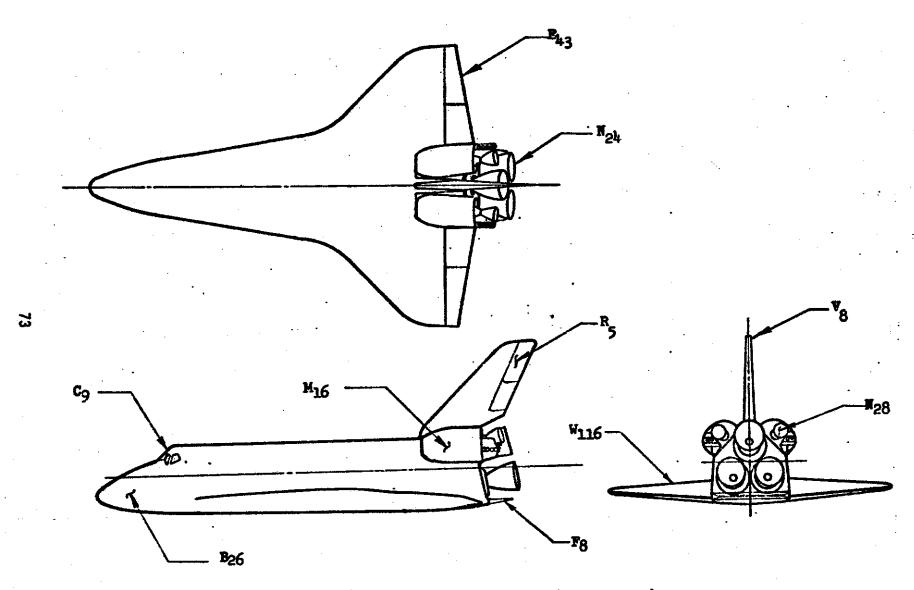


a. General

Figure 1. - Axis systems.



b. Orbiter/747 Axis System DefinitionFigure 1. - Concluded.

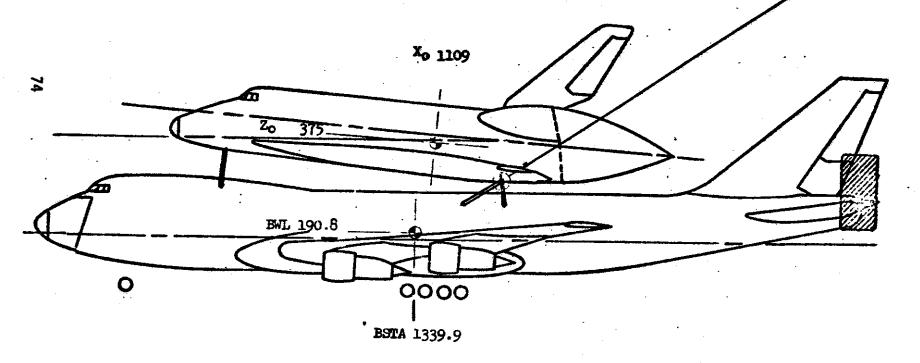


a. SSV Orbiter Configuration (VC70-000002) Figure 2. - Model sketches

## REFERENCE DIMENSIONS (FS)

	ORBITER	747 CARRIER
WING AREA ∼Ft <sup>2</sup>	2690	5500
MAC (c) ~ INCHES	474.81	327.78
SPAN (b) ~ INCHES	936.68	2348.04
MOMENT REFERENCE CENTER	67.5% LB	25.0 % ₹
F.S. ~ INCHES W.P. ~ INCHES	1109.0 375 <b>.0</b>	1339.9 190.8

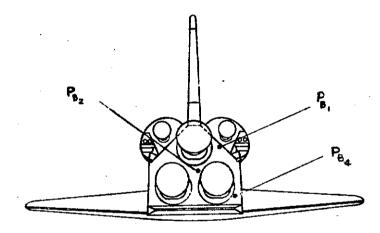
ENL 400 (Zo 267.5 BSTA 1607 (Xo 1317)



# b. Orbiter/747 Flight Test Configurations

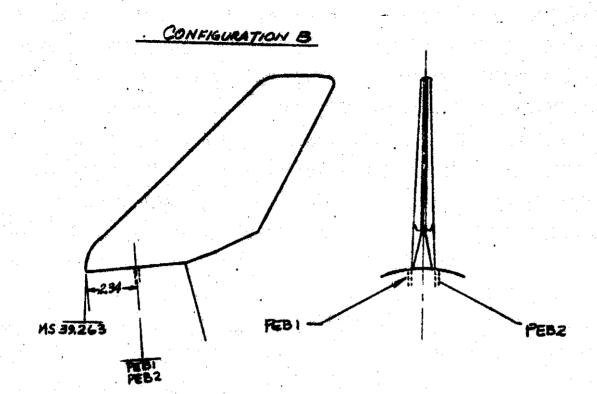
Figure 2. - Continued.



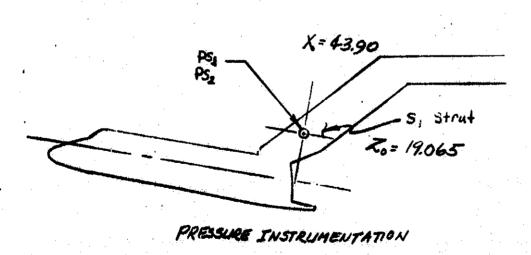


c. Base Pressure Locations

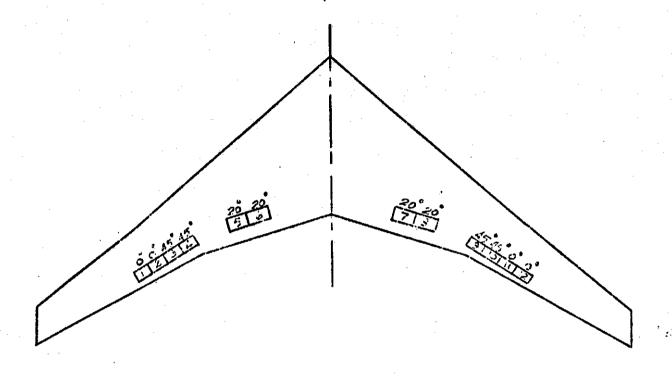
Figure 2. - Continued.



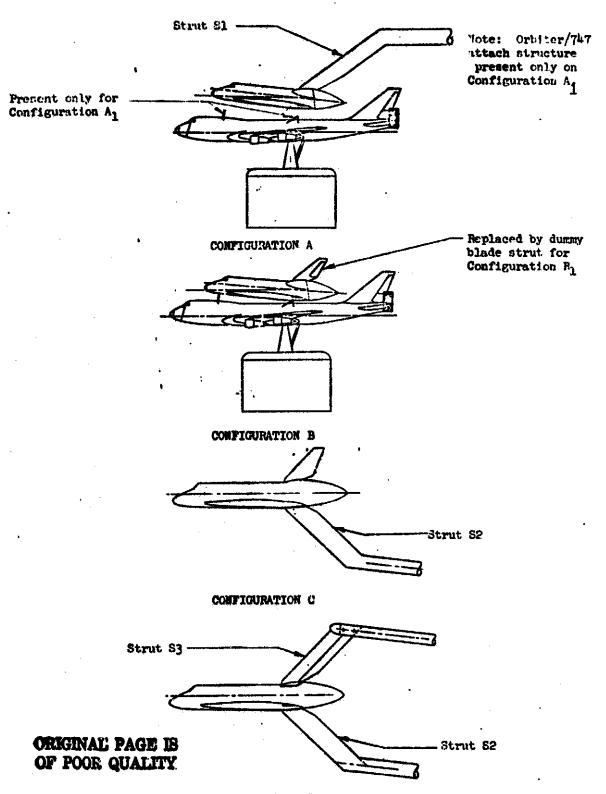
# CONFIGURATION A



d. Blade Strut and Vertical Tail Pressure Locations Figure 2. - Continued.



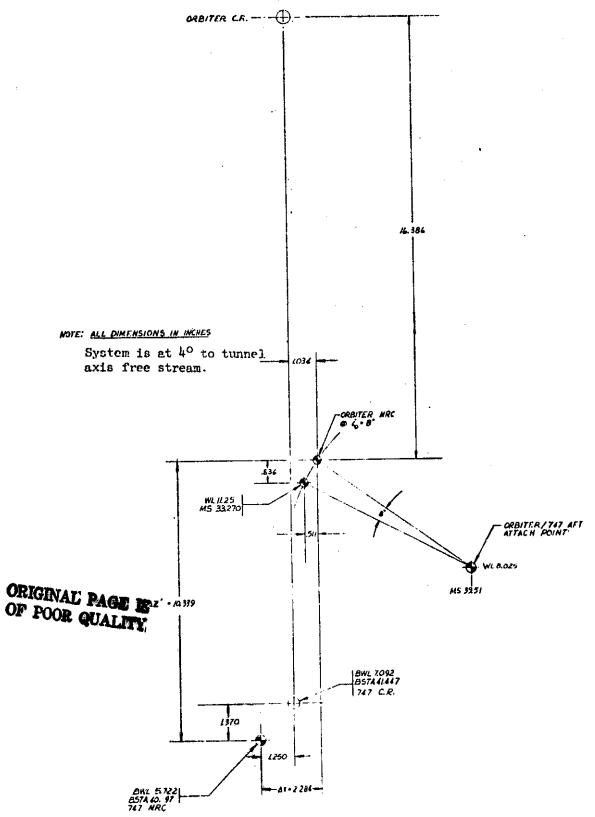
e. Standard In-Flight Speed-Brake
Figure 2. - Continued.



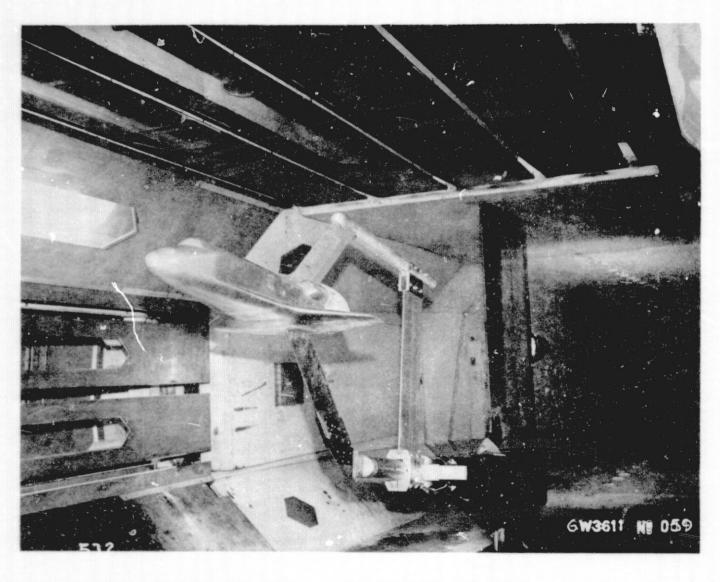
CONFIGURATION D

f. Test Support Configurations

Figure 2. - Continued.



g. Orbiter/747 C.G. and C.R. Orientation
Figure 2. - Corcluded.

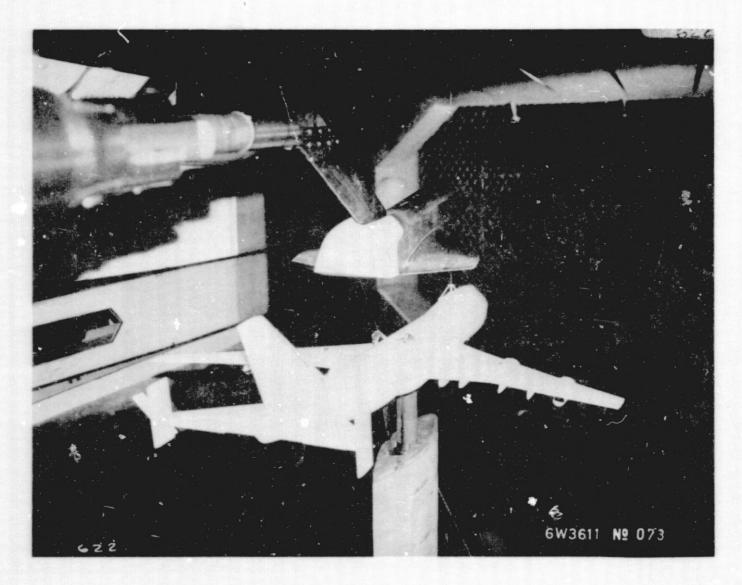


a. Orbiter Alone with Dummy Blade in Proximity for Sting Tare Effect Study Figure 3. - Model photographs.



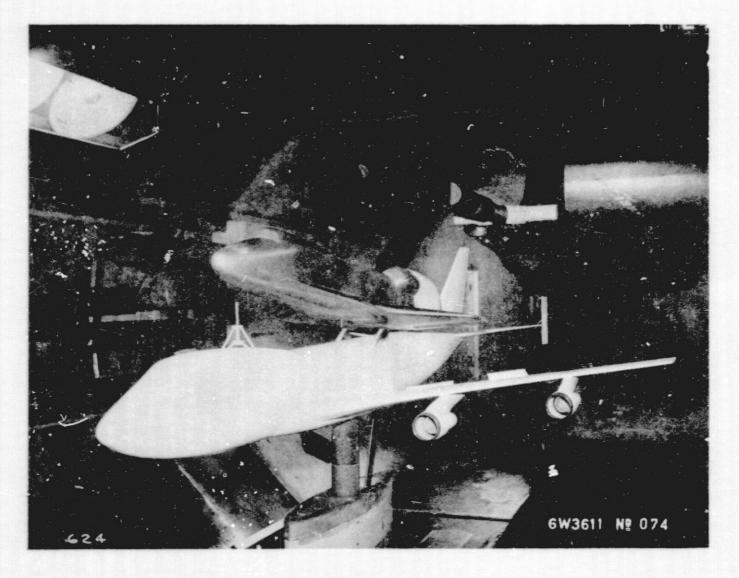
b. Orbiter Alone with Tail Cone  ${\rm TC}_{5.1}$ 

Figure 3. - Continued.



c. Aft View of the Orbiter/747 Showing Vertical Displacement Figure 3. - Continued.

OF POOR QUALITY



d. Front View of the Orbiter at an Angle of Attack with Respect to the 747 Carrier Figure 3. - Concluded.

### **APPENDIX**

TABULATED SOURCE DATA

VOLUME 3 Pages 1-1021

Tabulations of plotted data are available on request from Data Management Services

DATE	Λı	OFC	75	

SCALE =

TABULATED SOURCE DATA - CA20

CARRIER DATA CA20 747/1

(RON034) | 0 81 DEC 75 | 1

PAGE

.000

#### REFERENCE DATA

.0300

SREF	*	5500.0000	SQ.FT.	XHRP	•	1339,9000	IN.XC
1 REF		327.7800	IN.	YHRP	•	.0000	IN.YC
2055	_	2200 0000	144	ZHQP		190.8000	IN.ZC

-5.000 BETAC =

3.000 .000 .000 .000 RU07N7 = RUD-L =

PARAMETRIC DATA

RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 5.00

HACH .600 .600 .601 .599 .600 .600	ALPHAH 091 1.899 3.842 5.788 7.724 9.637 11.602 13.552	96TA -4.96130 -4.96240 -4.97080 -4.97170 -4.97240 -4.97030 -4.95960 -4.96630	Q(PSF) 422.25450 422.74870 423.24130 421.49410 422.61340 422.36310 422.73930 422.11910	CL .01540 .19800 .37040 .54460 .71770 .89780 1.01190	CD .09160 .09680 .09780 .09360 .11040 .15230 .20950	CLM .06220 .00450 04260 09010 10200 10628 11660	.10230 .09740 .09500 .09230 .08920 .08870 .09010	CLN 02480 02380 02300 02190 02010 02040 02090 01950	CSL .01290 .01220 .01340 .01440 .01540 .01400 .01390
.600	13.552 GRADIENT	-4.96630 00242	422.11910 .25158	.09051	00097	02673	00186	.00046	.00036

CA20 747/1

CARRIER DATA

(RGN035) ( 01 DEC 75 }

#### REFERENCE DATA

SREF	-	5500.0000	50.FT.	XHRP		1339.9000	IN.XC
LREF		327.7800	IN.	YHRP		.0000	IN.YC
BREF		63-8.8400	1N.	ZMRP	=	190.8000	IN.ZC
SCALE	-	.0300					

#### PARAMETRIC DATA

BETAC	•	.000	ELV-18	•	.080
ELV-08	•	3.000	RUD-U	•	.000
RUD-L	=	.000	RU0747	•	.000

#### GRADIENT INTERVAL = -1.00/ 5.00 RUN NO. 852/ 0 RN/L 4 3.31

MACH	ALPHAH	BETA	O(PSF)	CL	CO	CLH	CY	CLN	Car
	.000	00110	422,49690	.01330	.09640	.08300	00730	.00160	.09020
.600			422.00320	. 19500	.09230	.01890	00720	.00180	.00016
.600	1.947	.00540		. 36920	.09330	03590	00820	.00190	.00000
.600	3.060	.00650	422.12380			08390	01030	.00220	00050
.600	5.820	00140	421.87220	.55060	.09950		• • • •	.00240	.00000
.600	7.852	00070	421.74720	.73050	.11610	10770	01060		00020
.599	9.685	.00100	421.61910	.88000	.16180	08020	01170	.00290	
.600	11.561	.01150	422.49060	1.00630	.21380	09780	01000	.00230	- ,00080
.000	GRADIENT	.00197	09712	.09221	00081	03081	00023	.0000 <b>0</b>	00005

CARO 747/1 CARRIER DATA (RON036) ( 01 DEC 75 )

			CA	.20 747/1			CARRIER DATA	•	r.Hanwa:	ו נמנ	L AS I
	REFERE	NCE DATA							PARAMETRIC	DATA	
SREF • 5	5500.0000 S	Q.FT. XMRF	- 1339	1.9000 IN.XC				BETAC -	5.000	ELV-IB =	.600
LREF =	327.7800 I		-	.0000 IN.YC				ELV-08 -	3.000	RUD-U =	.000
	2348.0400			.8000 IN.ZC				RUD-L =	.000	RUD747 =	.000
SCALE -	. 0300										
		RUN NO	). 854/ 0	RN/L =	3.27 GR	ADIENT INTE	RVAL = -1.0	00/ 5.00			
	MACH	ALPHAH	BETA	Q(PSF)	CL	CD	CLM	CY	CLN	CSL	
	.600	083	4.99490	421.87520	.01970	.09070	. 05420	12560	.03060	01310	
	.600	1.684	4.99510	422.00020	.20160	.09620	00630	12290	.03020	01340	
	.600	3.844	4.99720	421.87070	. 37460	.08730	05150	11740	.02800	01420	
	.601	5.798	4.99920	422.86520	, 55070	.09390	08400	11340	.02630	01510	
	.600	7.700	5.00160	422.24030	.72350	.10980	11300	10930	. 02450	01610	
	.600	9.668	4.99550	422.61300	.89390	. 15580	12760	11110	.02510	01240	
	.600	11.584	4.99800	422.36780	1.01550	.20930	13140	11040	.02500	01420	
		GRADIENT	.00059	00110	.09038	00097	02692	.00214	00066	8002 <del>0</del>	
	REFERE	NCE DATA	CA	.20 747/l	01 51		CARRIER DATA	•	PARAMETRIC		EC 75 1
SREF = 5	5500.0000 S	D.FT. XHRF	- 1339	.9000 IN.XC				ALPHAC -	4.900	BETAC #	. 900
LREF =	327.7800		•	.0000 IN.YC				ELV-1B .	.000	ELV-08 =	3.000
	2348.0400 1		- 190	.8000 IN.ZC				ELEVON =	5.000	BETAD .	.000
SCALE -	. 0300							PHI =	.000	DX ×	.000
								DY =	.000	02 =	7.500
		RUN NO	). <b>8</b> 51/0	RN/L =	3.29 GR	ADIENT INTE	RVAL = .	00/ 12.00			
MACH	ALPHAO	ALPHAH	BETA	DY	DZ	CL	CD	CLM	CY	CLN	CSL
. 599	6.201	5.79870	00750	00860	3.87780	.46680	. 10320	06330	00810	.90070	.00059
. 599	8.330	5,80870	00760	00950	4.90820	.43370	.09960	.00720	000+0	.00070	.00046
.601	10.305	5.82640	01540		4.94490	.39841	. 09590	.04670	00630	.00060	.00068
.600	12.627	5.83970	00780		6.77120	. 35900	.09150	.10489	00850	.00060	.00070
.601	14.759	5.85010	00830		0.42520	.32120	.08780	.14780	00880	00100.	.00070
.601	16.873	5.86800	01570		9.60390	.27890	.08170	.21460	00810	.00030	.00070
640	10.007	E 00760	_ 07110	nacon .	10 63750	23690	ሰ <b>ን</b> ፍፍስ	28820	- 00730	. 00000	.00050

.23690

-.01665

.07560

-.00178

.28820

.02680

-.00730

-.00005

.00000

-.00002

.00050

.00002

.00690 10.63750

.26292

.00079

5.88360

. 00672

.600

18.983

GRADIENT

-.03110

-.D0190

5 7

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

(RGN038) ( 01 DEC 75 ) CARRIER DATA CA20 747/1 01 SI PARAMETRIC DATA REFERENCE DATA 4.000 ELV-IB . .000 ALPHAC = 1339.9000 IN.XC XMRP = SREF - 5300.0000 50.FT. 5.000 ELEVON = ELV-08 -3.00D .0000 IN.YC YHRP . LREF \* 327.7800 IN. .000 ALPHAO . 10.000 BETAO = ZHRP -190.8000 IN.ZC BREF \* 2348,0400 IN. .000 .000 ĐΧ PHI SCALE . .0300 7.580 .000 DZ GRADIENT INTERVAL # -5.00/ 5.00 RN/L = 3.33 RUN NO. 850/ 0 CSL CLN CLM CY CD ÇL ALPHAO OY ΟZ BETA **ALPHAH** HACH .03010 .20760 -.04350 -.05760 .44000 .08640 2.12860 6.26880 5.80870 10.41260 .600 -9.976 -.03260 .02270 -.02130 .14340 .08830 6.26810 .42020 5.81360 10.41330 1,49020 600 -6.964 -.02350 .01650 .10070 .01080 .40700 .09100 1.06520 6.27000 10.41450 -4.978 5.81900 .599 .00960 -.01510 .05880 .09340 .03320 .40040 .64080 6.29770 -3.007 5.82670 10.41830 .600 .00640 .03580 -.01030 .03960 .39830 .09460 6.27660 10.41950 .42100 5.02550 -1.992 .600 -.00416 .00310 .01230 .04290 .39820 .09590 10.42220 .20930 6.31260 -1.000 5.82610 .600 .00000 .00190 .09650 .04410 -.01160 .40020 -.00900 6.24410 10.41790 5.82360 .007 .601 -.00300 -.03350 .00740 .04580 .09530 -.22960 6.27750 .40060 5.82620 10.41990 .600 1.014 .01330 -.00630-.05640 .03950 6.28800 .40210 .09540 10.42220 -.44470 .600 2.013 5.82370 -.00920 .01860 .09400 .02970 -.07950 .40610 -.65700 6.27060 5.82490 10.42000 2.989 600 .02570 -.01540 .00940 -.11970 .09130 -1.08590 6.26940 .41610 10.41820 5.81950 .600 4.984 -.02780 -.22470 .04440 -.04900 6.26100 .44870 .08580 10.41490 -2.15500 5.81220 .601 9.990 .00521 -.00310 -,00019 -.02247 .00093 .00007 .00034 -.21609 -.00125 -.00000 GRADIENT

PAGE 3

			CASO	747/1	01 S1		CARRIER DATA		(RGN03	9) 491 DE	C 75 )
	REFEREN	CE DATA							PARAMETRIC	DATA	
LREF -	500.0000 SQ 327.7800 IN 348.0400 IN	. YHRP	0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-08 = ALPHAO = PHI = DY =	4.000 3.000 10.000 .000	ELV-18 = ELEVON = BETAO = DX = DZ =	.000 5.000 .000 .000 7.500
		RUN NO	. <del>01</del> 8/ 0	RN/L =	3.35 GRA	DIENT INTE	(RVAL = -5.0	00/ 5.00			
MACH .599 .599 .600 .598 .600 .599 .600 .600 .599	BCTA -9.977 -6.964 -5.008 -3.000 -2.007 -1.006 .025 1.019 2.013 2.991 5.113 9.990 GRADIENT	ALPHAH 5.80370 5.81260 5.81530 5.81670 5.81990 5.82050 5.82110 5.82140 5.82140 5.82140 5.82140 5.82040 5.82040 5.81320	ALPHAO 10.40860 10.41720 10.42300 10.42860 10.42910 10.43390 10.43310 10.43540 10.43740 10.43740 10.43740 10.43740 10.47550 .00180	DY 11.96970 11.42280 11.04220 10.63430 10.42340 10.20700 9.98250 9.76020 9.53270 9.30678 8.80200 7.5950022151	02 6.35950 6.42840 6.43340 6.45000 6.42870 6.42870 6.43900 6.43900 6.43400 6.43400 6.44050 6.48930 00131	CL .43960 .42100 .41510 .40830 .40590 .40570 .40560 .40700 .41370 .44060 00019	CD .09010 .09090 .09380 .09600 .09690 .09750 .09820 .09770 .09660 .09290 .08310	CLM09540060900409001160 .00100 .01290 .02440 .03300 .03580 .04000 .0377000740	CY .18640 .12680 .09510 .04120 .02110 .00050 01920 05460 07490 12150 23220 01962	CLN04120032400237001430010000056000150 .00180 .00530 .00930 .02050 .04400	CSL .03538 .02780 .02210 .01580 .01260 .00590 .00310 .00000 00280 00290 00290
	REFEREN	CE DATA	CA20	747/0	OL 51 AT38	A139	CARRIER DATA	•	(RGN04		C 75 )
LREF .	500.0000 SQ 327.7800 IN 348.0400 IN .0300	.FT. XHAP . YHRP	₩ .0	900 IN.XC 080 IN.YC 000 IN.ZC				ALPHAC = ELV-1B = ELX-1C = BETAO = DX =	.000 .000 5.030 .000	BETAC = ELV-OB = MACH = DY =	000. 000.£ 000. 000.
		RUN NO	. 619/ 0	RN/L =	3.37 GRA	DIENT INTE	ERVAL # -1.0	00/ 4.00			
ALPHAD 8.543 8.536 9.531 6.529 8.525 8.523	0Z 1.907 4.846 9.288 17.991 31.807 36.614	HACH .59950 .60050 .59950 .59980 .59930 .60000	DX 3.60120 3.59700 3.59490 3.59790 3.60800 3.61500	03230 03230 02610 02240 01460 01210	BETAO .01640 .01400 .01230 .00940 .00500	PHI .00000 .00000 .00000 .00000	AL PHAN 1.94510 1.94340 1.94340 1.92880 1.91450 1.91010	BETA .05340 .05390 .05390 .06010 .05980 .05200	CL .17540 .19630 .19630 .22620 .25960 .26430	CO .08100 .08210 .08210 .08520 .08640 .08660	CLH -17980 -17020 -17020 -11440 -07040 -06190

.00000

.00000

GRADIENT

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00000



DATE 01 DEC 75

#### TABULATED SOURCE DATA - CA20

.00000

GRADIENT

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00000

CARO 747/0 OLSI AT38 A139 CARRIER DATA LRONG411 ( 41 DEC 75 ) REFERENCE DATA PARAMETRIC DATA SREF - 5500.0000 SQ.Ff. XMRP -1339.9000 IN.XC ALPHAC . 4.000 BETAC -.000 327.7800 IN. YMRP = .0000 IN.YC ELV-IB -.000 ELY-08 . 3.000 190.8000 IN.ZC BREF # 2348.0400 IN. ZMRP = ELEVON = 5,000 HACH .600 SCALE = .0300 BETAO -.000 PHI .000 ĐΧ .000 ĐΥ .000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 621/ 0 RN/L = 3.27 BETAO **ALPHAO** DZ MACH OΧ DY PHI **ALPHAR** BETA CD CLH. 12.656 .965 .59940 -.06780 -.01860 .00680 .00000 5.83310 .06160 .46440 .06340 .10590 4.780 -.33520 -.01570 .00350 .00000 5.82950 .06890 12.650 .59960 .40140 .08620 .10088 -.59320 -.01060 .00330 .00000 12.648 8.551 .59960 5.82270 .04540 .50030 .08880 .07380 12.651 15.655 .60020 -1.07500 -.00980 .00120 .00000 5.81040 .05270 .52760 .09180 .03860 12.672 30.855 .60070 -2.11910 -.00380 -.00410 .00000 5.79490 .06010 .57010 .09500 -.01170 12.678 45.578 .6005u -3.13100 -.00250 -.00490 .00000 5.78510 .06010 .59690 .09590 -.03990 12.678 60.229 .59990 -4.14410 .01270 -.01300 .00000 5.77850 .05240 .61460 .09640 -.05940 .00000 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 CAZO 747/0 CARRIER DATA 01 51 AT38 AT39 (RCN042) 1 01 DEC 75 ) REFERENCE DATA PARAMETRIC DATA SREF - 5500.0000 SQ.FT. XMRP ... 1339.9000 IN.XC ALPHAC = 8.000 BETAC = .000 LREF = 327.7800 IN. YHRP .0000 IN.YC ELV-IB -.000 ELY-08 . 3.000 BREF = 2348.0400 IN. ZHRP 190.8000 IN.ZC ELEVON -5.000 MACH .600 SCALE -.0300 BETAD = .000 PH1 .000 .000 DX DY .000 RUN NO. 620/ 0 RN/L = 3.33 GRADIENT INTERVAL = -1.00/ 4.00 **BETAO ALPHAH** ALPHAO ĐΖ MACH DΧ DY PHI BETA CL ÇO CLM 16.829 3.116 .59950 -2.43120 -.02120 .00530 .00000 9.76940 .03940 .72530 .12740 .03230 -2.83530 -.01980 .00420 .00000 9.76310 16.828 6.039 .59960 .05540 .73740 .13140 .02926 -4.53450 -.00890 .00070 .00000 16.849 18.388 .60050 9.74570 .06220 .78700 .14130 -.01820 16.864 32.986 .60080 -6.55190 .00410 -.00220 .00000 9.73110 .06210 .82790 .14770 - 05780 48.151 .59930 -8.63310 .01220 -.00550 .00000 9.72170 .05498 .85940 . 15180 -.07826 16.870 63.071 .59990 -10.74270 .02870 -.01480 .00000 9.71610 .06290 .87040 . 15520 -.08870 16.896

PACE

CA20 747/0 OL 51 AT38 AT38 CARRIER DATA (RGND43) ( DI DEC 75 )

	REFERENC	E DATA							PARAMETRIC	DATA	
SREF -	5500.0000 SQ.	FT. XHRP	- 1339.9	000 IN.XC				ALPHAC =	4.000	BETAC =	-5.000
LREF =	327.7800 IN.	YMRP	-	OOD IN.YC				ELV-IB =	.000	ELV-OB .	3.000
	2348.0400 IN.	ZMRP		OCD IN.ZC				ELEVON =	5.000	MACH =	.600
SCALE =	.0300							BETAO =	-5.000	PHI =	.000
								DX =	.000	8Y =	.000
		ON NUR	. 622/ 0	RN/L =	3.34 GRA	DIENT INTE	RVAL = -1.6	00/ 4.80			
ALPHA <b>O</b>	D2	MACH	ĐΧ	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLM
12.644	1.130	.59920	~.11230	1.40980	-5.21950	.00000	5.83690	-4.98500	.46350	. 08020	.09370
12.623	4.337	.59930	33720	1,40240	-5.22240	. 00000	5.82570	-4.97960	.48720	.08180	.07410
12.617	8.510	. 5994 <b>0</b>	62560	1.42200	-5.22820	.00000	5.82070	-4.98110	. 50730	.08450	.04660
12.618	16.134	.59970	-1.14280	1.44840	-5.23870	.00000	5.80320	-4.98220	. 53660	. 08750	.01000
12.630	31.004	. 59900	-2.16520	1.47370	-5.24900	.00000	5.79220	-4.98470	.57340	.09020	0297 <b>0</b>
12.635	46.251	. 54950	-3.21640	1.48210	-5.25230	.00000	5.78510	-4.97510	.59890	. 09090	05190
12.636	60.055	.59910	-4.17150	1,48950	<b>-</b> 5.2 <b>5</b> 550	.00000	5.77980	-4.96250	.61330	.09110	06580
	GRADIENT	.00000	.00000	. 00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
			OSAS	747/0	02 SI AT38	AT39	CARRIER DATA		(RGN04	ius (nine	C 75 }
	055505110	e 6. v.	CAED	14170	00 31 A130	X133	CAUTEN DATE	•			
	REFERENC	E DATA	CAEU	74770	0E 31 A130	A133	CAUCIEN BATE	•	PARAMETRIC		
SREF * '				000 IN.XC	02 31 X130	A133	CARTEN SATE	ALPHAC =			-5.000
	REFERENC 5500.0000 SQ. 327.7800 IN.		× 1339.9		02 31 A130	X133	CAUTEN BATT		PARAMETRIC	DATA	
LREF =	5500.0000 SQ.	FT. XHRP	× 1339.9	000 IN.XC	02 31 A130	X133	CAUTEN BATT	ALPHAC *	PARAMETRIC	DATA BETAC =	-5.000
LREF =	5500.0000 SQ. 327.7800 IN.	FT. XHRP YHRP	× 1339.9	000 IN.XC	02 3. Also	X133		ALPHAC * ELV-18 *	PARAMETRIC 4,000 ,000	DATA  BETAC = ELV-08 =	-5.000 3.000
LREF = 8	5500.0000 SQ. 327.7800 IN. 2348.0400 IN.	FT. XHRP YHRP	× 1339.9	000 IN.XC	00 J. A130	X133	CAUTE!	ALPHAC * ELV-18 * ELEVON *	PARAHETRIC 4,000 ,000 5,000	DATA  BETAC = ELV-08 = HACH =	-5.000 3.000 .600
LREF = 8	5500.0000 SQ. 327.7800 IN. 2348.0400 IN.	FT. XHRP YHRP	= 1339.9 = .0 = 190.8	000 IN.XC			RVAL = -1.0	ALPHAC = ELV-18 = ELEVON = BETAO = DX =	PARAMETRIC 4,000 .000 5.000 -5.000	DATA  BETAC = ELV-0B = HACH = PHI =	-5.000 3.000 .600
LREF = 8	5500.0000 SQ. 327.7800 IN. 2348.0400 IN.	FT. XHRP YHRP ZHRP	= 1339.9 = .0 = 190.8	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	PARAMETRIC 4,000 .000 5.000 -5.000	DATA  BETAC = ELV-0B = HACH = PHI =	-5.000 3.000 .600
LREF = 6 BHEF = 6 SCALE =	5500.0000 SQ. 327.7800 IN. 2348.0480 IN. .0300	FT. XHRP YMRP ZMRP RUN NO.	= 1339.9 = .0 = 190.8	000 IN.XC 000 IN.YC 000 IN.ZC RN/L =	3.33 GRA	DIENT INTE	RVAL = -1.0	ALPHAC = ELV-18 = ELEVON = BETAO = DX = 000/ 4.00	9ARAMETRIC 4.000 .000 5.000 -5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	~5.000 3.000 .600 .000
LREF = 6 BHEF = 6 SCALE =	5500.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300	FT. XHRP YHRP ZHRP RUN NO.	* 1339.9 * 0 * 190.8 623/ 0	000 IN.XC 000 IN.YC 000 IN.ZC RN/L =	3.33 GRAI <del>B</del> ETAO	DIENT INTE PHI	RVAL = -1.0 ALPHAH	ALPHAC = ELV-18 = ELEVON = BETAO = DX = DD/ 4.00	PARAMETRIC 4.000 .000 5.000 -5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	~5.000 3.000 .600 .000 .000
LREF = 6 SCALE = 6 SCALE = 6 ALPHAO 12.689	5500.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300	FT. XHRP YHRP ZHRP RUN NO. MACH .60000	= 1339.94 = .0 = 190.84 = 6237.0 OX = .11690	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = 0Y 1.45730	3.33 GRA BETAO -5.21700	DIENT INTE PHI .00000	RVAL = -1.0 ALPHAH 5.83830	ALPHAC * ELV-1B = ELEVON = BETAO = DX = DD/ 4.00 BETA -4.98900	PARAMETRIC 4.000 .000 5.000 -5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	~5.000 3.000 .600 .000 .000
LREF = 6 SCALE = 6 SCALE = 6 ALPHAO 12.689 12.667	5500.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300 DZ 1.078 4.227	FT. XHRP YHRP ZHRP RUN NO. MACH .60000 .60030	* 1339.90 * 190.80 * 190.80 OX 11690 34250	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = 0Y 1.45730 1.45710	3.33 GRA BETAO -5.21700 -5.21810	DIENT INTE PHI .00000 .00000	RVAL = -1.0 ALPHAH 5.83830 5.83370	ALPHAC * ELV-18 = ELEVON = BETAO = DX =  00/ 4.00  BETA -4.99900 -4.99230	PARAMETRIC 4.000 .000 5.000 -5.000 .000 CL .45380 .47830 .50220 .53270	BETAC = ELV-08 = MACH = PHI = DY = CO .08010 .08260	~5.000 3.000 .600 .000 .000 .000
ALPHAO 12.689 12.667 12.664	5500.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300 DZ 1.078 4.227 8.517	RUN NO.  MACH . 60000 . 60030	* 1339.90 * 190.80 * 190.80 DX 	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = DY 1.45730 1.45710 1.47060	3.33 GRA BETAO -5.21700 -5.21810 -5.22580	D1ENT INTE PHI .00000 .00000 .00000	RVAL = -1.0 ALPHAH 5.83830 5.83370 5.82500	ALPHAC * ELV-18 = ELEVON = BETAO = DX =  DO	PARAMETRIC 4.000 .000 5.000 -5.000 .000 CL .45380 .47830 .50220	BETAC = ELV-08 = MACH = PHI = DY = CD .08010 .08260 .08510	~5.000 3.000 .600 .000 .000 .000
ALPHAO 12.689 12.667 12.664	5500.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300 DZ 1.078 4.227 8.517 16.093	RUN NO.  MACH . 60000 . 60030 . 60020	* 1339.90 * 190.80 * 190.80 - 00 - 00	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = DY 1.45730 1.45710 1.47060 1.48740	3.33 GRA BETAO -5.21700 -5.21810 -5.22580 -5.23480	PHI .00000 .00000 .00000 .00000	RVAL = -1.0 ALPHAH 5.83830 5.83370 5.82500 5.81380	ALPHAC * ELV-18 = ELEVON = BETAO = DX =  DX =  DX +.00  BETA -4.98900 -4.99230 -4.98420 -4.97680	PARAMETRIC 4.000 .000 5.000 -5.000 .000 CL .45380 .47830 .50220 .53270	BETAC = ELV-08 = MACH = PHI = DY = CD .08010 .08260 .09510 .08770	~5.000 3.000 .600 .000 .000 .000
ALPHAO 12.689 12.667 12.664 12.67	5500.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300 DZ 1.078 4.227 8.517 16.093 31.112	RUN NO.  MACH .60000 .60030 .60020 .59970	* 1339.94 * 190.89 * 190.89 6237.0 OX 11690 34250 63820 -1.16010 -2.19170	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = 0Y 1.45730 1.45710 1.47060 1.48740 1.51140	3.33 GRA BETAO -5.21700 -5.21810 -5.22580 -5.23480 -5.23470	PHI .00000 .00000 .00000 .00000	ALPHAN 5.83830 5.83370 5.82500 5.81380 5.79960	ALPHAC * ELV-18 = ELEVON = BETAO = DX =  DX =  DX +.00  BETA -4.98900 -4.99230 -4.98420 -4.97500	PARAMETRIC 4,000 5,000 5,000 -5,000 .000 CL .45380 .47830 .50220 .53270 .57130	BETAC = ELV-OB = MACH = PHI = DY = CO .08010 .08260 .09510 .08770 .09010	~5.000 3.000 .600 .000 .000 CLM .08890 .05986 .03740 .00300 ~.03590

----

DATE OI DEC 75

### TABULATED SOURCE DATA - CA20

PAGE T

CA20 747/1 OI SI AT38 AT39 CARRIER DATA

(RCN045) ( 01 DEC 75 )

#### REFERENCE DATA

#### PARAMETRIC DATA

		co 57	vwae		1330 0000	IN XC	ALPHAC	.000	BETAC	•	.000
SREF	5500.0000	50.11.	YLAND		1339.9000		FLV-18	.000	ELV-08		3.000
+ DEE	327.7800	IN.	YHRP		.0000	IN.YC					
					190.8000	IN 70	ELEVON	5.700	MACH	•	.600
BREF	2348.0400	IN.	Zmio	•	190.0000	114.20	SETAD	003	PHI		.000
COME	.0300						DEINO				
SCALE	 .0300						OY	.000	DY		.000

### RUN NO. 627/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	OZ	HACH	OX	DY	BETAO	PHI	ALPHAH	BETA .04680	.03280	.095/50	.22560
8.542	.714	.59990	3.63520	02480	.01080	.00000	2.00160				ALC: A PARTIE DE LA COMPANION
	3,692	.59920	3.63100	02090	.00950	.00000	5.00010	.05430	.04330	.09670	.21100
8.528			3.63410	01440	.00730	.00000	1.99340	.04570	.05560	.09740	.19980
8.518	8.066	.59980				.00000	1.98550	.65310	.07650	.10000	. 15690
8.507	15.605	.59930	3.63780	01330	.00490					.10150	.11020
8.501	30.694	.59970	3.64610	00330	00020	.00000	1.97170	.04490	.10750		
	36.458	.60030	3.64900	00250	00040	.00000	1.96870	.04470	.11570	.10170	.10130
8.453	CRADIENT	- 00034	00141	.00131	00044	.00000	00050	.00252	.00353	.00040	00490

CA20 747/1 01 51 AT38 AT39 CARRIER DATA

(RGN046) ( 01 DEC 75 )

#### REFERENCE DATA

#### PARAMETRIC DATA

		5500.0000 SQ.FT. 327.7800 IN.	XMRP YMRP		1339.9000	IN.XC IN.YC	ALPHAC ELV-IB	•	.000	ELV-08	•	3.000
TO CONTRACTOR STREET, LABOR.	•	2348.0400 IN. .0300	ZMRP	•	183 8000	IN.ZC	ELEVON BETAO		5.000	PHI	•	.000
SCALE		.0300					DX	•	.000	DY	•	.000

## RUN NO. 625/ 0 RN/L . 3.33 GRADIENT INTERVAL . -1.00/ 4.00

ALPHAO	DZ	HACH	DX	DY	BETA0 .00710	PHI .00000	ALPHAN 5.90010	BETA .05470	.32370	.09540	.14945
12.932	1.832	.60070	18360	02470		.00000	5.89670	.06970	.33370	.09690	.14590
12.928	4.902	.60050	39970	02410	.00510	.00000	5.89180	.04620	.35310	.10030	.11290
12.919	9.333	.59970	70450	01890	.00320	.00000	5.88020	.05340	.37870	.10350	.07780
15.955	16.287	.60010	-1.18040	00760	00230	.00000	5.86670	.04510	.42190	.10640	.02740
12.928	31.736	.59970	-3.26590	00890	00240	.00000	5.85220	.06070	.44920	.10740	.00090
12.931	46.536 61.653	.59990	-4.32120	.00250	00900	.00000	5.84840	.05300	.46560	.10800	01800
12.938	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CARO 747/1 OI SI AT38 AT39 CARRIER DATA

#### REFERENCE DATA

#### PARAMETRIC DATA

500 0000 SQ.F	T. XHRE	- 1339 9	000 IN.XC				ALPHAC =	8.000	BETAC -	.000
							ELV-18 =	.000	ELV-08 .	3.000
							ELEVON .	5.000	MACH .	.600
	Z r m v ·	- 130.0	000 111.20				BETAO .	.000	PHI .	.000
.0300							DX .	.000	DY .	.000
	RUN NO	. 626/ 0	RN/L =	3.25 GRA	DIENT INTER	RVAL = -1.0	00/ 4.00			
07	MACH	DX	DY	BETAD	PHI	ALPHAH	BETA	a	co	CLH
			01670	.00380	.00000	9.78520	.04000	.62350	.12690	.06000
				.00240	.00000	9.78090	.03220	.63630	.12970	.05740
			100 TO 10	.00200	.00000	9.77510	.04050	.65300	.13470	.04250
				00030	.00000	9.76470	.04690	.68230	.13870	.01610
			.00960	00430	.60000	9.74940	.04650	.73200	. 14560	02360
(2007년 1월 1일			.01440	00560	.00000	9.73700	.04670	.76710	.15000	04500
			.02570	01250	.00000	9.72920	.05480	.78930	. 15370	05750
		-11.37640	.03360	01550	.00000	9.72220	.04720	.79640	. 15480	06040
		-12.40620	.03680	01600	.00000	9.72200	.04730	.80370	.15610	06220
GRADIENT	.00021	14064	.00229	00050	.00000	00154	00279	.00457	.00100	00093
	DZ .924 3.722 8.201 15.692 30.700 45.718 61.155 57.687 75.245	327.7800 IN. YHRP 348.0400 IN. ZHRP .0300  RUN NO  DZ MACH .924 .60020 3.722 .60080 8.201 .60030 15.692 .59940 30.700 .59980 45.718 .59990 61.155 .59980 67.867 .59990	327.7800 IN. YHRP • .0 348.0400 IN. ZHRP • 190.8 .0300  RUN NO. 626/ 0  DZ MACH DX .924 .60020 -2.09540 3.722 .60080 -2.48890 8.201 .60030 -3.10370 15.692 .59940 -4.13510 30.700 .59980 -6.20900 45.718 .59990 -8.29310 61.155 .59980 -10.44360 67.887 .59990 -11.37640	327,7800 IN. YHRP = .0000 IN.YC 348,0400 IN. ZHRP = 190.8000 IN.ZC .0300  RUN NO. 626/ 0 RN/L =  DZ MACH DX DY .924 .60020 -2.0954001670 3.722 .60080 -2.4889001030 8.201 .60030 -3.1037000870 15.692 .59940 -4.1351000710 30.700 .59980 -6.29310 .01940 61.155 .59990 -10.44360 .02570 67.887 .59990 -11.37640 .03363	327.7800 IN. YMRP * .0000 IN.YC 348.0400 IN. ZMRP * 190.8000 IN.ZC .0300  RUN NO. 626/ 0 RN/L * 3.25 GRA  DZ MACH DX DY BETAO .924 .60020 -2.0954001670 .00380 3.722 .60080 -2.4889001030 .00240 8.201 .60030 -3.1037000870 .00200 15.692 .59940 -4.135100021000030 30.700 .59980 -6.20900 .0096000430 45.718 .59990 -8.29310 .0144000560 61.155 .59980 -10.44360 .0257001250 67.887 .59990 -11.37640 .0336001550	327.7800 IN. YHRP * .0000 IN.YC 348.0400 IN. ZHRP * 190.8000 IN.ZC .0300  RUN NO. 626/ 0 RN/L * 3.25 GRADIENT INTER  DZ MACH DX DY BETAO PHI .924 .60020 -2.0954001670 .00380 .00000 3.722 .60080 -2.4889001030 .00240 .00000 8.201 .60030 -3.1037000670 .00200 .00000 15.692 .59940 -4.135100021000030 .00000 30.700 .59980 -6.20900 .0096000430 .00000 45.718 .59990 -8.29310 .0144000560 .00000 61.155 .59980 -10.44360 .0257001250 .00000 67.887 .59990 -11.37640 .0336301550 .00000	327.7800 IN. YHRP * .0000 IN.YC 348.0400 IN. ZHRP = 190.8000 IN.ZC .0300  RUN NO. 626/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.6  DZ MACH DX DY BETAO PHI ALPHAH .924 60020 -2.0954001670 .00380 .00000 9.78520 3.722 60080 -2.4889001030 .00240 .00000 9.78590 8.201 60030 -3.1037000870 .00200 .00000 9.77510 15.692 59940 -4.135100021000030 .00000 9.77510 30.700 59980 -6.20900 .0096000430 .00000 9.78940 45.718 59990 -8.29310 .0144000560 .00000 9.73700 61.155 59980 -10.44360 .0257001250 .00000 9.72920 67.887 59990 -11.37640 .0336001550 .00000 9.72220 75.245 .60070 -12.40620 .0368001600 .00000 9.72220	327.7800 IN. YMRP = .0000 IN.YC	327,7800 IN. YHRP = .0000 IN.YC	327.7800 IN. YHRP = .0000 IN.YC

# PARAMETRIC DATA

CREE	5500.0000	SO FT.	XHRP	1339.9000	IN.XC	ALPHAC	•	4.000	BETAC		-5.000
	327.7800		YHRP		IN.YC	ELV-18		.000	ELV-08	•	3.000
	2348.0400		7HRP	190.8000	IN.ZC	ELEVON		5.000	MACH		.600
SCALE	.0300					BETAO		-5.000	Phil		.000
SCALE	.0300					OX .		.000	DY		.000

RUN NO. 624/ 0 RN/L = 3.34 GRADIEN	INTERVAL	-1.00/	4.00	
------------------------------------	----------	--------	------	--

ALPHAO	DZ	HACH	OX	DY	BETAO	PHI	ALPHAN	SEIA	CL.	CD	CLH
12.701	.950	.60050	09170	1.42280	-5.22730	.00000	5.89270	-17770	.32290	.09250	.13700
12.684	4.036	.60000	31050	1.41650	-5.23070	.00000	5.88430	-4.97960	.34430	.09380	.10950
		.59970	60550	1.43390	-5.23560	.00000	5.88040	-4.97320	.36130	.09640	.08540
12.674	8.306		-1.11840	1.48120	-5.24530	.00000	5.86640	-4.98130	.38710	.09930	.04800
12.674	15.805	.59980				.00000	5.85530	-4.96770	.42400	.10160	.01120
12.679	30.896	,59900	-2.16020	1.48350	-5.25590				.44850	.10210	01090
12.680	45.974	.59940	-3.19910	1.49390	-5.25890	.00000	5.84400	-4.97330			
12.692	60.286	.60090	-" 18950	1.50010	-5.26240	.00000	5.83610	-4.97300	.46370	.10190	02150
	O . OIENT	00000	00000	00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000



YABULATED SOURCE DATA - CA20 DATE OI DEC 75

PAGE

.08550

.09010

.09180

09240

.00031

-.00370

.05230

.09010

.11210

.00286

.04590

.04490

.04440

.04430

.00192

.27710

.17970

.12440

.09590

-.00263

DATE OF DEC	13										
			CVS0	747/1	): SI	CA	RRIER DATA		(RGN049	9) ( Q1 DEC	75 )
		- 01T1						P	ARAHETRIC	DATA	
	REFERENCE	LUAIA						ALPHAC =	.000	BETAC =	.008
SREF = 55	00.0000 50.1	FI, YHRP	= 1339.90	BOD IN.XC				ELY-IB =	.000	ELV-08 =	3.000
	27.7800 IN.	Y≲RP		BOD IN.YC				EFEAUN =	5.080	HACH =	.600
	48,0400 IN.	ZHRP	- 190.80	OBD IN.ZC					.000	PHI -	.000
	.0300								.000	DY =	.000
SCALE =	,0000							DX •	.000	<b>U</b> I -	••••
		RUN NO.	631/ 0	RN/L =	3.24 GRAD	HENT INTER	VAL = .00	)/ 12.00			
				OY	BETAO	PHI	ALPHAH	BETA	CL.	CD	CLLH
ALPHAO	ĐZ	MACH	DX		.01260	.00000	1.98210	.05430	.08300	.09240	.12800
6.312	-1.419	.59920	5.29790	02660	.01180	.00800	1.98020	.06190	.08250	.09300	. 13910
6.292	1.466	.59920	5.30150	02450	.0880	.00000	1.97970	.04600	.09040	.09320	.13150
6.279	6.074	.59910	5.30320	01630	.00610	.00000	1.97080	.05290	.10790	.09420	.09950
6.271	13.645	,59920	5.30920	01460	.00540	.00000	1.97780	.04510	.11380	.09420	.09160
6.270	16.388	.59950	5.30430	01130	.00200	.00000	1.96400	.04490	.12610	.09440	.07290
6.269	23.904	.60010	5.31460	00590	00065	.00000	00011	~,00345	.00171	.08004	09165
	GRADIENT	00002	.08037	.00178	0000	100000					
		RUN NO	6887 0	RN/L =	3.29 GRA	DIENT INTER	O. = JAVI	0/ 12.00			
				DY	BETAO	PH1	ALPHAH	BETA	CL	CD	CLX
ALPHA0	DZ	HACH	DX	01930	.00730	.00800	2.01030	.04640	.00250	.08320	.29310
10.637	1.272	.59950	2.52450	01980	.00740	.00000	2.00740	.05410	.01040		.27990
10.614	3.983	.59910	2.52480	01370	.00630	.00000	2.00440	.03840	.01860	.08550	.26700
10.601	6.941	.59970	2.52560	01570	.00590	.00000	2.00010	.04560	.03020		.24640
10.592	9.629	.59960	2.52630	01500	.06410	.00000	1.99100	.05300	.05440		.19730
10.583	15.194	.60070	2.52960	01350	.00330	.00000	1.97990	.05250	.07160		, 16270
10.585	20.698	.60030	2.53050	00570	.00030	.00000	1.97440	.04490	.09630		.13860
10.582	26.325	.60090	2.53340	00570	00040	.00000	1.97230	.05230	.09780		.11790
10.566	31.999	.59990	2.53780	00650	.00000	.00800	1.96870	.05230	.10750		.10370
16.560	37.416	.59910	2,53880	00450	00060	.00000	1.95310	.05230	.11660		.09440
10.561	42.935	.60070	2.54520	00120	00220	.00000	1,96090	.04440	. 12230		.08490
10.555	48.086	.59910	2.53990	.00050	00019	.00800	-,00120	02068	.00328	\$ .00042	0054
	GRADIENT	.00003	.00022	,00000							
•		RUN NO	. 630/ 0	RN/L =	3.25 GR/	DIENT INTE	RVAL =	00/ 12.00			
			ВX	DY	BETAO	PHI	ALPHAH	BETA	CL	ÇD	CLH
ALPHAO	DŽ	HACH	1.51970	.00250	.00170	.00000	2.03560	.03910	0632		.36210
14.838	3.701	.59910	1.51440	.00250	.00140	.00000	2.03470	.04660	6575		.38180
14.828	6.608	,59920	-	.00280	.00070	.00800	2.02900	.05400	0418		.34310
14 798	11.326	.60090	1.51090	.00000			2.011/20	nuson	0037	0.08550	.27710

-.00130

-.00330

-.00640

-.01460

-,00013

.00000

.08080

.00000

.00000

.00000

2.01470

1.99360

1.97740

1.97150

-.00102

.00510

.01100

.01550

.02740

.00002

1.50530

1.50510

1.51130

1.51010

-.00111

.60090

.59910

.59940

.60030

.60090

.00023

11.326

18.752

33.074

48.459

63.690

GRADIENT

14.798

14.777

14.759

14.751

14.740

.12130

.09470

-.00337

.09130

.09190

.00061

.03820

.11510

.00138

.05240

.04470

.00005

1.97450

1.95780

-.00123

.00000

.00800

.00000

-.08448

.00210

.01860

.00000

-.00530

-.01370

-.00809

11.36060

11.36550

11.37099

.000

.59900

.59990

.60050

-.08012

35.009

50.142

64.911

GRADIENT

14.656

14.656

14.648

CARRIER DATA

1 01 DEC 75 3 (RGN:250)

PARAMETRIC DATA

#### REFERENCE DATA

.600 BETAC = .000 ALPHAC = 3.000 1339,9000 IN.XC XMRP ELV-08 -.000 SREF . 5500.0000 SQ.FT. ELV-18 . .0080 18.YC .600 YHRP HACH ELEVON = 5.000 327.7800 IN. LREF = 190.8808 IN.ZC .000 2MRP .000 PHI 2348.0400 IN. BETAC = BREF = .000 10.000 DY .0300 במ • SCALE = RN/L = 3.25 RUN NO. 636/ 0 CLH œ CL. DETA ALPHAH PH1 BETAO .11170 DY ĐΧ .09220 .09710 MACH DZ .05470 1.97800 AL PHAD .00000 .01450 -.03320 .11390 .09270 15.27190 .03820. . 172 .60020 .05450 6.250 1.97189 .00000 .01190 -.02910 .10390 .09320 15.27150 .16490 .59960 .05360 3.541 1.96950 6.243 .00000 .01069 -.02610 .07930 .09430 15.27720 .59990 .11890 .05350 7.711 1.96200 6.236 .00000 .00860 -.02330 .09430 .07250 15.28380 .12270 .60070 .65310 15.213 6.239 1.96230 .00000 .00739 .06360 -.02260 .09410 .59920 15.28410 .05300 .12990 6.237 18.581 1.95020 .000000 .00528 -,02100 -.00109 15.28710 .00013 .00105 .59920 -.00015 24.078 -.00009 6.238 .00000 -.08051 .00693 .00073 -.00004 GRADIENT .00/ 12.00 GRADIENT INTERVAL . 3.24 RUN NO. 637/ 0 RN/L = CLN CO Œ BETA ALPHAH PHI BETAO BY .2661û .08330 MACH DX .03420 .05490 DZ 1.99630 ALPHAO .00000 .00710 .26110 -.02510 12.46830 .08500 .03760 .59910 2.219 .04680 10.523 1.99528 .00000 .00660 12.46980 -.01920 .22860 \_0B720 .05020 5.391 .53950 .04620 1.99840 10.508 .00000 .00500 -.01890 .17240 12.47340 00000. .60000 .04560 .67390 9.749 1.99140 10.459 .00080 .00350 -.01460 .11340 12.47839 .09288 .59950 .10570 17.197 .05270 1.95940 10.491 .00000 .00010 -.01260 .09900 .09230 12.48740 .11510 .59980 32.470 .05250 1.96590 10.487 \_00000 .00090 -.01390 .08510 .09250 12,49090 .04470 . 12340 .60020 39.016 1.95280 10.466 .00000 -.00130 -.00650 -.00513 12,49400 .00052 .59980 -.00109 .00217 47.269 -.00080 10.484 .00000 -.00015 .00078 .00694 .80012 GRADIEN .00/ 12.00 GRADIENT INTERVAL . 3.23 RUN NO. 638/ 0 RN/L = CLH CD CL BETA **ALPHAH** PHI BETAO .36600 DY ΩX -.02600 .07660 MACH .04720 2.02580 AL PHAO OΖ .00000 .00200 -.08530 .35500 11.34790 .08060 .60030 .04740 -.021504.989 2.02180 14.710 .00000 .00170 -.00530 .CB100 .31960 11.34880 .59990 -.00469 8.249 .05480 2.01540 14.694 .00000 -.00840 .00150 .25010 .08650 11.35090 .60070 .02730 .05400 12.695 .00000 2.00348 14.680 -.00460 -.08080 .16730 .09990 11.35310 .06990 .60000 .06070 20.170 1.95500 14.671 .00000 -.00170



DATE OI DEC 75

GRADIENT

TABULATED SOURCE DATA - CARD

CARRIER DATA 747/1 01 St

(RGN051) ( 01 DEC 75 )

PAGE II

			CY50	747/1	01 SI	Ci	MARIER DYI	^	cnoras	.,	
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF =	500.0000 SQ.F 327.7800 IN. 348.0400 IN.		= .00	100 IN.XC 100 IN.YC 100 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	.000 .000 5.000 .000	BETAC * ELV-08 = HACH = PHI = OY =	.000 3.000 .500 .000
		RUN NO:	641/ O	RN/L =	3.24	GRADIENT INTER	VAL = .	00/ 12.00			
	D.3	HACH	אם	ĐΥ	BETAC	) PH1	ALPHAH	BETA	CL	CD	CLH
ALPHA0	DZ		25.24210	02560	.0094	0.00000	1.96160	.05390	. 1 1900	.09250	.06990
6.190	8.425		25.24410	02548	.0086		1.96010	.05370	. 12310	.09290	.06480
6.192	11.568		25.25100	32440	.007	·-	1.95560	.05350	. 12850	.09360	.05530
6.193	16.022		25.25360	02090	.0048		1.95580	.05310	.13500	.09360	.04950
6.197	23.561	00025	.00064	.00006	000		00048	00006	.80130	.60013	00152
	GRADIENT	00000	,00007	.55555	,						
		RUN NO.	640/ 0	RN/L -	3.25	GRADIENT INTER	IVAL	.00/ 12.00			
	OZ	MACH	ĐΧ	DY	BETA	D PHI	ALPHAH	BETA	CL	CO	CLH
ALPHAO	10.347	.59940	22.40780	01410	.005	00000.	1.98200	.03850	.07270	.08720	.19790
10.406	13.221	.68098	22.41020	~.02080	.004		1.97910	.05390	.08030	.08850	. 17730
10.407		.59960	22,41380	01610	.003		1.97280	.04580	.09080	.08990	. 151 10
10.409	17.998	.59920	22.42090	02000	.001		1.96540	.05280	. 10448	.09090	.12410
10.410	25.437	.59960	22.43270	00750	.080		1.95580	.03700	.12350	.09180	.09050
10.413	40.457	.59940	22.43050	01450	000		1.95860	.05260	.12830	.09220	.08380
10.411	46.554		.00800	.00000	.000		.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	,,,,,						
		RUN NO	. 639/ 0	RN/L =	3.30	GRADIENT INTER	RVAL =	.00/ 12.00			
			ОX	DY	BETA	o PHI	ALPHAH	BETA	CL	CĐ	CLH
ALPHA0	DZ	HACH	21.18160	01070	.001	_	1.99990		.025 <b>50</b>	.08210	.29620
14.618	17.230	.59990	21.18350	00400	.001		1.99560	.03860	.03680	.08490	.26170
14.617	16.279	.60930		00640	.080		1.98830		.04990	.08660	.23080
14.616	20.672	.60080	21.18910 21.19310	00210	001		1.98090		.06930	.08820	.19030
14.614	28.161	.60090		00190	002		1.97060		.09660	.09040	. 13430
14.610	43.380	.60080	51.50550	00290.	005		1.95620		. 11440	.69140	.10539
14.607	58.256	.60000	21.20560	.01290	+.018		1.95640		. 12390		.08890
14.604	68.990	.68040	21.21290	.01230			.00000		.00000	.00000	.00000

.00000

.00000

.00000

.00000

.08000

CA20 747/1 OI SI CARRIER DATA

### (RGN052) ( 01 DEC 75 )

	REFERENCE	DATA						F	PARAMETRIC	DATA	
LREF #	500.0880 SQ.F 327.7803 IN. 348.0400 IN. .0300	T. XHRP YHRP ZHRP	= .0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4.000 .008 5.000 .000	BETAC = ELV-DB = HACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO.	632/ 0	RN/L =	3.24 GRA	DIENT INTER	VAL = .00	0/ 12.00			
ALPHAO	ĐZ	MACH	ĐX	DY	BETAD	PHI	ALPHAH	BETA	CL	CD	CLH
6.161	-3.400	.60080	3.77560	02220	.01160	.00000	5.64160	.05500	.46280	. 10470	07190
6.159	517	.60060	3.57990	01780	.01220	.00880	5.64240	.04650	.46040	,10410	05930
6.166	3.831	.60030	3.28090	01630	.01030	.00000	5.83970	.04590	.46470	.10360	05410
6.178	11.707	.69960	2.74170	01420	.00790	.00000	5.83720	.05290	.47520	.10340	05920
6.203	24.148	.59980	1.88550	00870	.00240	.08008	5.83190	.04470	.49010	. 10270	05280
0,000		00009	06846	.00027	00030	.00000	00019	.08089	.80133	00003	00865
		RUN NO.	646/ 0	RN/L =	3.24 GRA	DIENT INTER	VAL00	0/ 12.00			
ALPHAO 10.487	02 1.956	HACH .59980	DX .61599	DY 01239	BETAO .00670	PHI .00000	ALPHAN 5.85740	BETA .03910	CL .38060	CD .89450	CLH .07720

ALPHAO	DZ	HACH	ÐΧ	DY	BETAD	PHI	ALPHAH	BETA	CL	CD	CLM
10.487	1.956	.59980	.61590	01239	.00670	.00000	5.66740	.03910	.38060	.89450	.07720
10.482	6.349	.68050	.31720	01200	.08680	.00000	5.85210	.04610	.39510	.09590	.05610
10.460	13.746	.59930	16850	00960	.00400		5.85350	.04550	.41840	.09760	.02060
10.493	29.253	.59980	-1.25310	00390	00130	.00000	5.8413D	.05260	.45180	.09950	01780
10.497	34.861	.59990	-1.63970	00460	08050	.00000	5.83910	.05250	.46080	.09960	05330
10.501	44.044	.60010	-2.27250	00250	00050	.00000	5.83380	.04480	.47230	.09990	03510
	GRADIENT	.00016	06799	.00097	00016	.00000	00121	.00159	.00330	.00032	00480
		CD Sht St	n 647/1	Q1371 =	2 Dr 201	NIENT INTER	Ω. = 1AVS	N/ I⊋.R8			

ALPHAO	DZ	MACH	ΩX	DY	BETAD	PHI	ALPHAH	BETA	CL	CD	CLH
14.823	.973	.60890	34980	00900	.00130	.00000	5.90030	.03900	.29020	.08260	. 19340
14.798	3.966	.59980	55880	00710	.00190	.00000	5.69710	.03820	.29940	.08380	. 18220
14.785	8.718	.60050	88540	08540	.00080	.02000	5.89000	.64570	.31890	.08760	. 15440
14.777	16.065	.60859	-1.39120	00359	00020	.08000	5.97550	.05360	.35570	.09310	.09510
14.774	31.103	.60080	-2.42410	.00730	00380	.00000	5.85800	.04480	.40639	.09700	-03140
14.771	45.934	.59920	-3.45290	.00920	06550	.00000	5.84860	.05240	.43820	.09930	~.00210
14.768	60.784	.59920	-4.47470	.02360	01350	.08880	5.83530	.04490	.45920	.09990	02210
	GRADIENT	00003	06912	.00046	00008	.00000	00134	.00093	.00374	.08068	00511



DATE OI DEC 75

-.00960

-.01040

-.00770

10.28290

9.77130

8.74770

.69090

.59990

.60050

6.408

13.966

28,936

10.432

10.436

10.455

PAGE 13 TABULATED SOURCE DATA - CA20 1 01 DEC 75 1 (RCH053) CARRIER DATA CA20 747/1 01 51 PARAHETRIC DATA REFERENCE DATA .000 4.600 BETAC = ALPHAC . XHRP 1339,9000 IN.XC SREF = 5500.0000 SQ.FT. 3.000 .000 ELV-08 = ELY-IB = YHPP .0000 IN.YC 327.7800 IN. ELEVON = 5.000 HACH .600 190.8000 IN.ZC 2348.0400 IN. ZHRP BREF = PHI .000 .000 BETAO = SCALE = .0380 .000 DX 10.000 ĐΥ GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.27 RUN NO. 635/ 0 CD CLH ALPHAH BETA CL PHI DΥ DETAD HACH DX **ALPHAO** -.09120 84740 .47220 .10310 5.83520 -.02950 .01620 .00000 13.78940 -3.556 .60030 6.127 .47110 .10310 -.07880 .01490 .00000 5.03590 .06250 -.03250 13.58720 6.127 -.595 .60070 .10300 -.07040 .47310 .00000 5.83540 .05170 .01370 13.29050 -.03270 3.736 .60070 6.134 -.07230 .04570 .48050 .10290 .01110 .00000 5.83280 -.02220 12.77230 .60010 6.151 11.277 .04560 .48720 .10260 -.07190 .00000 5.83040 .00890 -.01940 .60020 12.32180 6.169 17.788 -.00025 -.00001 -.00212 .00098 .00000 -.00034 -.06872 .00139 -.00034 -.0000B GRADIENT GRADIENT INTERVAL = .00/ 12.00 3.23 RUN NO. 6947 0 RN/L = CLH **ALPHAH** BETA CL CD BETAO PHI DX OY HACH **ALPHAO** DZ .40480 .09350 .05940 5.04020 .00060 -.01680 .00000 .01530 .60020 10.79470 -1.201 10.449 .09430 .06830 -.00016 .40430 5.84070 -.01490 .01460 .00000 10.59270 .60020 10.431 1.842 .04830 .09570 5.83720 -.00869 . 1350

10.455 10.476	28.936 43.999	.60080	7.70840	00170	.00500	.00000	5.81390 5.81240	00170 00180	.47760 .48160	.09940	03780 04260
10.477	48.276 GRADIENT	.60010 .00015	7.41470 06785	00160 00116	00035	.00000	00077	00186	.00200	.00031	60439
		RUN NO	. 693/ D	RN/L =	3.23 GRA	DIENT INTER	VAL = .0	0/ 12.00			
ALPHAO 14.751 14.731 14.724	DZ 1.086 4.167 8.638	HACH .60030 .59960 .60010	0X 9.51270 9.30440 9.00320	DY 01800 01580 01780	BETAO .00838 .00800 .80759	PH1 .00000 .00000 .00000	ALPHAN 5.86830 5.85720 5.85940	BETA 00710 00830 00890	CL .32960 .33310 .34810 .37870	CD .08090 .08270 .08700 .09200	.21000 .20370 .16800 .09770
14.722 14.722 14.727 14.727	16.335 31.320 46.516 61.207 GRADIENT	.60040 .59960 .60010 .59940 00002	8.47860 7.45320 6.40990 5.39790 06746	01790 08050 00130 .01430 08001	.00660 .00300 .00270 00580 00011	00000. 00000. 00000. 00000.	5.83490 5.83490 5.82450 5.81820 +.00122	.00200 00200 00200 00200 88000	.41980 .44790 .46510 .00251	.09590 .09740 .09840 .08082	.03070 00500 02410 00574

.01300

.01100

.00510

.00000

.00000

.00000

5.82810

5.82040

-.00150

.00580

.43230

.45920

.01500

-.02060

.09760

.09890

(RGN054) ( 81 DEC 75 )

CAZO 747/1 OI SI CARRIER DATA

REFERENCE DATA PARAMETRIC DATA

	HEFERENC	E UALA									
LREF =	5500.0000 SQ. 327.7800 IN. 2348.6400 IN. .0300	YMRF	.0	0000 IN.XC 0000 IN.YC 0000 IN.XC				ALPHAC = ELEVON + EETAO = DX =	4.080 .080 5.000 .000 20.000	SETAC = ELV-OB = HACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO	. 642/0	RN/L =	3.22 GR	ADIENT INTER	VAL = .0	12.00			
ALPHAO	DZ	MACH	DX	DY	BETAQ	PHI	ALPHAH	BETA	CL_	CO	CLH
6.093	2.348	.59910	23.37960	-,02250	.01360	.00000	5.83400	.04650	.48150	.10180	10378
6.103	5.577	.59930	23.15810	02820	.01220	.00800	5.03120	.05400	.48320	. 10200	09950
6.111	9.879	.59920	22.86210	02590	.01070	.00000	5.83040	.05370	.48588	.10220	09460
6.132	17.481	.59960	22.33520	01930	.00820	.02000	5.82870	.04560	.49090	.10220	09090
6.145	25.860	.59980	21.75890	02230	.00550	.00000	<b>5.</b> 82680	.05300	.49690	.10178	08390
	GRADIENT	.08001	06870	08042	02038	.00000	00046	.00090	.00057	.00005	.00120
		RUN NO	). 677/ 0	RN/L =	3.28 GR	ADIENT INTER	VAL = .C	12.00			
ALPHAO	ĐZ	HACH	ВX	Đ¥	BETAO	PHI	ALPHAN	BETA	CL	co	CLH
10.302	4.428	.69980	20.39070	.00180	.01220	.00000	5.85300	08890	.43340	.09510	.04020
10.309	7.499	.60020	20.18050	.00840	.01130	.00000	5.84870	01700	.43870	.09610	.02340
10.316	11.949	.59990	19.87580	.01160	.01640	.00000	5.84580	02500	.44660	.09730	.00880
10.336	19.513	.59990	19.35478	.03820	.00760	.00000	5.83900	01750	.45860	.09830	01060
10.357	34.554	.60000	18.31350	00950	.00490	.00000	5.83580	00990	.47710	.09900	03350
10.367	48.107	.60030	17.37700	.01280	.00310	.00000	5.83240	00970	.46920	.09940	<b>~.0</b> 4360
10.301	GRADIENT	.00001	06946	.00129	00024	.00000	08094	00212	.00176	.00029	00411
		RUN NO	). 676/ 0	RN/L =	3.27 GR	ADIENT INTER	IVAL = .(	12.00			
ALPHAO	DZ	MACH	ΩX	DY	GETAD	PH1	ALPHAN	BETA	CL	CD	CLH
14.585	7.759	.59950	18.91230	00490	.00530	.00000	5.87200	00890	.37750	.08730	. 16440
14.565	10.920	.60050	18.69760	00170	.00500	.00000	5.87010	01700	.38850	.08960	.13180
14.575	15.111	.59950	18.40910	01090	.08430	.00000	5.85550	00210	.40050	.09180	.10140
14.575	22.922	.60080	17.07690	.00050	.00150	.00000	5.85910	01770	.42020	.09430	.05810
14.571	37.645	.59910	18.86160	.00180	.00210	.08000	5.84840	01080	.44590	.09640	.01570
14.590	52.832	.59920	15.01080	.01610	00130	.00000	5.84130	01080	.46510	.09780	01250
14.705	68.281	.60040	14.72650	.03240	00970	.00000	5.83640	01748	.47840	.09860	02630
14.703	GRADIENT	.08032	06791	.00101	~.00009	.00000	08060	00258	.00348	.00073	01031
	OUVD (EM)	.00032		.,,,,,,							

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

(RGN055) ( 01 DEC 75 ) CARRIER DATA CA28 747/1 OL SI PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 8.000 BETAC . XHRP 1339.9000 IN.XC 5500.0000 SQ.FT. 3.000 = B0-Y13 ELV-IB . .000 .0000 IN.YC 327.7800 IN. YMRP LREF .600 ELEVON = 5,000 HACH 190.8000 IN.ZC BREF = 2348.0400 IN. ZHRP BETAO -.000 PHI .000 SCALE -.0380 DX - = .000 DY .000 GRADIENT INTERVAL = .00/ 12.00 RUN NO. 633/ 0 RN/L . 3.23 CO CLH BETA CL BETAO PHI **ALPHAH** DY MACH ĐΧ **ALPHAO** DZ .04850 .04550 .16000 -. 15979 .00000 9.71490 .01090 1.93130 -.01440 -.987 .59920 5,939 .15820 -.14770 .65580 .84050 9.71670 -.01510 .00980 .00000 1.54240 1.851 .59950 5.987 .15780 -.13369 .00000 9,71750 .04770 .83920 .00980 .87960 .60070 -.01480 6.027 6.647 -. 11960 .84190 . 15700 9,71900 .05480 .00000 -,15900 -.01320 .00770 14.133 .59940 6.074 .15700 -.11150 .84430 .00620 .00000 9.71600 .05470 -.01220 .60020 -.80660 18.612 6.098 .84590 .15780 -.10630 .00000 9,71780 .04700 .00320 -1.54470 -.00780 .60050 6.122 24.109 .00294 -.00008 .00017 -.00169 -.00029 .00000 -.13020 .08023 -.00017 GRADIENT .00025 GRADIENT INTERVAL . .00/ 12.00 3.25 RUN NO. 645/ 0 RN/L = CLH **ALPHAH** BETA CL ÇD BETAO PHI DY MACH DX DZ **ALPHAO** . 14740 -.09940 .77120 .00000 9.73420 .05720 .00760 .59940 -.65080 -.01520 -2.897 10.299 . 14660 -.08540 9.73240 .04110 .77070 .00800 .00000 -1.07800 -.OL089 .60020 .285 10.303 -.08430 9.73030 .04770 .77720 .14700 .00808 -.01440 .00810 -1.67400 10.323 4.651 .60030 -.09460 .04580 .78780 .14730 .00000 9.72660 -2.70650 -.01300 .00530 .60030 10.355 12.183 .14920 -.06420 .80850 .00000 9.71950 .05430 -.00870 .00170 -4.81880 27.415 .60060 10.431 ~.08120 .05450 .02270 .15100 9.71470 .00000 -.00430 .00010 .60050 -6.68330 10.459 42.296 -.08170 . 15140 .65430 .82590 9.71360 -.00290 -.00120 .00000 -7.63700 47.714 .59970 10.464 .00009 .00025 .00149 .00002 .00000 ~.00048 .00151 -.00082 .00002 -.13650 GRADIENT .00/ 12.00 3.28 GRADIENT INTERVAL = RUN NO. 644/ 0 RN/L = CD CLH CL **ALPHAH** BETA PHI DY BETAD MACH OΧ DΖ **ALPHAO** .02710 .67360 .12960 .00000 9.76940 .04100 -.01310 .00390 -2.01430 .60050 14.701 -.738 .69000 . 13120 .02970 9.76740 .03260 .00000 -.01170 .00370 · 2.335 .69030 -2.43060 14.691 .00200 .13370 .03970 .69710 9.76110 -.01650 .00270 .00000 .60060 -3.04150 6.812 14.699 -.03280 .72460 .13700 .00000 9.75120 .64640 -4.16420 .60100 -.01810 .59980 14.714 14.542 .76370 .14160 -.05860 9.73740 .64590 .00000 -.01050 -.00310 .60060 -6.16288 14.743 29.472 -.06920 .14500 .05410 .79000 9,72820 -.00360 -.00289 .00000 -8.22650 44.335 .60010 14.754 -.07580 . 14800 9.72010 .04650 .80690 -.00990 .00000 .01310 .60020 -10.28770 14.762 59.151 .00382 .00056 -.00619 .00159 .00000 -.00141 -.00022 .00807 -.13645 -.00107 GRADIENT

PAGE

15

CA20 747/1 OI SI

CARRIER DATA

(RCN056) ( 01 DEC 75 )

	REFERENC	E DATA							PARAHETRIC	DATA	
LREF =	590.0080 SQ. 327.7889 IN. 348.8489 IN. .0380	YMRP	0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO =	8.000 .000 5.000	BETAC = ELV-08 = HACH = PH1 =	.000 3.000 .600 .000
		RUN NO.	634/ 0	RN/L =	3.30 GR	ADIENT INTER	VAL = .8	07 12.00	18.000	DA =	.000
		1,010 1100									
ALFHAO	ĐZ	HACH	DX	DY	DATES	PHI	ALPHAH	BETA	CL	CD	CLH
5.917	-2.155	.59920	12.18910	03110	.01740	.00000	9.71230	.05720	.84430	.15780	186 <b>70</b>
5.956	.903		11.76590	02850	.01660	.00000	9.71600	.04890	.84110	. 15680	17460
5.534	5.537		11.12250	02580	.01440	.00000	9.71450	.64888	.03960	. 15610	15580
6.03B	12.654		10.12740	02420	.01290	.00000	9.71870	.04760	.64160	.15610	13690
6.070	19.121	.59950	9.23370	02490	.01028	.00000	9.71600	.65510	.84350	.15610	12400
6.058	25.727	.69960	8.31400	02380	.00700	.00000	9.71520	.05500	.64620	.15600	11530
0.035	GRADIENT	06028	13886	.00058	02047	.00000	00032	00019	00032	00015	-004 <b>06</b>
		RUN NO.	691/ 0	RN/L =	3.24 GR	ADIENT INTER	O. = JAVI	0/ 12.00			
ALPHAO	DZ	HACH	ĐΧ	DY	BETAO	PH1	ALPHAH	BETA	CL	CO	CLH
	-2.770	.59940	9.39150	01990	.01790	.00000	9.73900	.01070	.79550	.14960	10730
10.217	-2.770 .202	.60050	0.98730	01830	.01690	.00000	9.73760	.01010	.79400	. 14950	09640
10.225	5.005	.60030	8.31960	01770	.01580	.08800	9.73910	.00890	.79670	. 14920	08830
10.258		.69010	7.32340	01180	.01310	.00000	9.73430	.00070	.80400	.14970	08770
10.289	12.254	.59960	5.23270	01300	.00800	.00000	9.72900	.01580	.81959	. 15130	08840
10.356	27.323	.59930	3.10580	00360	.00560	.00000	9.72690	08000	.83210	.15270	08590
10.401	42.555	.60030	2.27510	00620	,00300	.00000	9.72320	.00840	.83660	. 15360	08460
10.410	48.530 GRADIENT	60004	13901	.00012	00023	.00000	.08031	00025	.00056	00006	.00169
		RUN NO	. 692/ 0	RN/L =	3.23 GF	ADIENT INTER	EVAL = .	12.00			
	67	MICH	рх	DY	BETAD	PHI	ALPHAH	BETA	CL	CD	CLH
ALPHAO	DZ	MACH 159960	7.86010	01080	.01200	.08080	9.76440	00550	.72100	. 13570	.03510
14.599	268	19990 19990	7.47810	01020	.01100	.08000	9.76290	00620	.72530	.13680	.02810

		HUN NU	. 6367 0	IUVE -	3.63 0.00	D16111 1111611					
ALPHAO	DZ	MACH	DХ	DY	BETAS	PHI	ALPHAH	BETA	CL_	CD	CLH
14.599	- 268	.59960	7.86010	01080	.01200	.08088	9.76440	00550	.72100	. 13570	.03510
14.597	2.610	.59960	7.47010	01020	.01100	.08080	9.76290	00620	.72530	.13680	.02810
14.613	7.478	.60000	6.80220	01478	.01070	.00000	9.76970	.00CBD	.73730	.13850	.00430
14.633	14.672	.60030	5.81800	02120	.00930	.00000	9.75250	.09770	.75380	. 14070	02020
14.673	29.795	.60000	3.73130	01120	.00310	.00000	9.74240	00020	.78180	.14430	05350
14.695	44.753	.59980	1.65330	01330	.00280	.00000	9.73500	.00790	.80280	. 14730	06330
14.712	59.602	.60890	41650	00080	00380	.00000	9.72990	.00820	.81760	. 14990	07180
14.716	CO-DIENT	00000	13720	00092	00006	.00080	00845	.00144	.00246	.00035	00489



PAGE 17 TABULATED SOURCE DATA - CARD

ATE OI DEC	75	TABULA	TER SOUNCE	UNIA - CA	-0						
			CAZO	747/1	01 51	C	ARRIER DATA		(RGN05)	71 t 01 0EC	75 )
	REFERÊNCE	DATA						1	PARAHETRIC	DATA	
	HET ENERGE	Un.o						ALPHAC =	0.000	BETAC =	.000
REF = 55	00.0000 SQ.FT	, XHRP		IOD IN.XC				ELV-IB =	.000	ELV-08 =	3.000
	27.7800 IN.	YMRP		180 IN.YC				EFEAON .	5.000	HACH =	.600
	48.0400 IN.	ZHPP	<b>+ 190.8</b> 0	100 IN.ZC				BETAO =	.000	PHI =	.000
CALE =	.0300							DX =	20.000	DY -	.000
		RUN NO.	. 643/ 0	RN/L =	3.22	GRADIENT INTER	TANL = 1.0	10/ 12.00.			
			ĐΧ	DY	BETA	AO PHI	ALPHAH	BETA	CL	CD	CLH
ALPHAO		HACH	22.40390	02500	.011		9.70870	.04980	.84540	. 15510	23180
5.918	-3.193	.60060	21.97440	02980	.01		9.70850	.05680	.84090	. 15440	20860
5.942	094	.60050	21.34670	02910	.019		9.70990	.05610	.83830	. 15420	18260
5.973	4.408	.60910	20.31020	02648	.01		9.70990	.05540	.83970	. 15480	15620
6.011	11.874	.60030	18.22690	01920	.00		9.71150	.04728	.84360	. 15530	12120
6.079	26.802	.60020	-,13883	.00036	00		.00000	08089	.00019	.00000	.00354
	GRADIENT	.00003	-,13003	.00000	***						
		RUN NO	6747 0	RN/L =	3.27	GRADIENT INTE	RVAL = .	00/ 12.00			
			DX	ĐΥ	BET	AO PHI	ALPHAH	BETA	CL	CD	CLH
ALPHAO	DZ	MACH	18.22120	.00080		770 .00080	9.73920	00550	.80760	. 14860	1117
10.226	-1.405	.59980 .60060	18.80350	.00330		660 .00000	9.73750	01420	.80670		1034
10.235	1.641		18.19850	.00170		390 .00800	9.73650	09710	.00990		0981
10.253	6.023	.68050	17.13510	.00620		250 .00000	9.73300	01530	.81420		0917
10.290	13.703	.60070	15.05930	.00700		00000. 0000	9,73110	00770	.82630		0891
10.351	28.615	.59970	12.92800	.00200		590 .00000	9.72550	00750	.83570		0830
10.395	43.688	.60080 .59980	12.11970	.00200		450 .00000	9.72910	00730	.83930		0903
10.403	49.633 GRADIENT	00800	13809	00037	+.00		00023	.00162	.00073	.00014	.0012
		RUN NO	). 675/ 0	RN/L =	3.27	GRADIENT INTE	RVAL .	00/12.00			
		w160	DX	۵ť	βEΊ	TAO PHI	ALPHAH	BETA	CL.	CO	CLH
ALPHAO	DZ	.60060	17.56580	.01050	-	1100 .00000	9.75870	02180	.75050		.0296
14.444	1.517	.5996 <b>0</b>	17.14950	.00580		00000 00000	9.75720	01490	.75450		.0170
14.457	4.549	.59980	16.53140	00060		00000. 0100	9.75430	60770	.76230		001
14.478	9.043		15.45500	.00340		0640 .00000	9.74680	01590	.77660		0241
14.497	16.873	.60010	13.36970	.00510		0150 .00000	9.73960	01590	.79650		049
14.563	31.919	.59990	11.30530	00570		00000. 0800	9.73640	00030	.6122		0587
14.607	46.722	.60090	9.09770	.08820		0670 .08000	9.73250	00770	.82320		0584
th 600	62,461	.59950	3.051/0					60405	00165		- 2754

-.00024

-.00148

.59950

-.00009

62.461 GRADIENT

14.699

-.13746

-.00059

.00031

.00158

.00185

-.89401

.00000

.01220

-.01720

-.03330

-.00722

.09680

.09890

.09390

E2000.

CA20 747/1 01 S1

CARRIER DATA

(RGN058) ( 01 DEC 75 )

P	FFI	CD	"N	CE	n.	T &

XMRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. .0000 IN.YC LREF = 327.7800 IN. YHRP = 190.8880 IN.ZC BREF = 2348.0400 IN. ZHRP = .0300 SCALE =

.69040

.68899

.59960

-,00004

-2.41550

-3.46170

-4.50100

-.08953

31.354

46.543

61.677

GRADIENT

14.833

14.828

14.820

#### PARAMETRIC DATA

ALPHAC	•	4.000	BETAC	*	.000
ELV-18		.000	ELV-08	-	3.000
ELEVON	-	5.080	MACH	-	.600
BETAD	-	.000	PHI	=	.000
DX	-	.000	DY	=	<b>18.</b> G00
)	-	.000	PHI		.000

.41230

.44190

.46130

.00447

.00740

.00830

.01030

-.00223

		RUN NO	. 775/ P	RN/L =	3.33 GRA	DIENT INTER	VAL = .0	0/ 12.00			
ALPHAO 10.526 10.526 10.524 10.524 10.536 10.542	DZ -1.419 1.326 5.838 13.085 28.495 43.191 47.091 GRADIENT	MACH .60030 .60030 .60070 .50950 .60020 .60090	0X .85680 .67100 .33640 -1.12830 -1.17810 -2.18280 -2.45200 06751	DY 9.98100 9.97800 9.97600 9.98970 10.00100 10.00520 00022	BETAO .02160 .02320 .02290 .01910 .00690 00020 00310 00007	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.83050 5.82840 5.81690 5.81440 5.80330 5.79600 5.79670 00211	8ETA .01560 .02110 .00570 .00650 .01060 .01030 .01100	CL .38440 .39110 .40530 .42460 .45580 .47600 .48030 .00315	CD .09560 .09630 .09740 .09860 .09940 .09970 .08980	CLM .04060 .04010 .02370 .00170 03150 04980 04960 00363
		RUN NO	781/0	RN/L =	3.22 GRA	DIENT INTER	RVAL = .0	10/ 12.00			
ALPHAO 14.865 14.649 14.843 14.834 14.831	DZ 1.432 6.001 8.890 16.716 29.965	HACH .60080 .60008 .60050 .60050	DX 35660 60690 87520 -1.41420 -2.32080	DY 9.94378 9.94940 9.95610 9.96810 9.98330	BETAO .01880 .02110 .02080 .01550 .00578	PHI .00000 .00000 .00000 .00000	ALPHAN 5.66978 5.86380 5.85720 5.84460 5.82750	BETA .02570 .02250 .00920 .01190 00930	CL .29920 .31400 .33250 .36760 .40920	.09530 .09530 .08810 .09040 .09350 .09680	CLH .17520 .14760 .12130 .06750 .01660

.00430

-.00210

-.01260

.00037

9.98990

10.00590

10.02160

.00166

.00000

.08000

.00000

.00000

5.82830

5.81770

9.80220

-.00154

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

CARRIER DATA

(RGN059) ( 01 DEC 75 )

PAGE 19

			CA20	747/1	01 51		CA	RRIER DATA		THUNUS	, , , ,	
•									1	PARAMETRIC	DATA	
	REFERENCE	DATA										
									ALPHAC =	4.000	BETAC -	.000
SREF = 5	500.0000 SQ.F			OX.NI DOE					ELV-18 =	.000	ELV-08 =	3.080
LREF =	327.7800 IN.	YHRP		000 IN.YC					ELEVON -	5.000	HACH =	.600
BREF = 8	348.0480 IN.	ZHRP	= 190.80	OOD IN.ZC					BETAO =	.000	PHI =	.000
SCALE =	.0300								Ox -	10.000	OY -	18.000
		RUN NO	. 735/ 0	RN/L =	3.31	GRAD!	ENT INTERV	/AL0	0/ 12.00			•
		•		BU	BET	.10	PHI	ALPHAH	BETA	CL	CD	CLH
ALPHA0	DZ	HACH	DX	DY 9.99070		550	.00000	5.85010	.00060	.41650	.09480	.02348
10.410	-2.369	.59950	10.89070	9.98750		500	.00000	5.8605	.00800	.41680	.09620	.02950
10.484	1.142	.60030	10.65890	9.98650		2370	.00000	5.85670	08520	.42888	.69710	.01560
10.407	5.650	.60010	10.34040	9.98950		1890	.00000	5.85130	00840	.44330	.09840	00630
10.424	13.193	.60040	9.81870 8.80350	9.59570		1830	.00000	5.84270	08450	.4675B	.09930	03170
10.437	27.965	.60000	7.77080	10.00859	-	120	.00000	5.83450	01260	.48380	.69950	04970
10.445	42.957	.59950	7.49300	10.80900	00		.00000	5.83280	08430	.48830	.09970	05350
10.450	46.957	.60000 +.00004	06888	00020		0029	.00000	00084	00248	.00248	.00020	00308
	GRADIENT	00004	00000	,00000								
		RUN NO	. 738/ 0	RN/L =	3.24	GRAD	IENT INTER	AYT = '(	00.51 \00			
			אמ	DY	ar'	TAO	PHI	ALPHAN	BETA	CL	CO	CLH
ALPHAO		HACH	9.59 <b>73</b> 0	9.97850		1040	.00000	5.89440	00270	.34820	.08480	. 15750
14.679	128	.60020 .60010	9.38060	9.97590		1530	.08080	5.89080	00540	.35270	.08680	. 14580
14.671	3.023	.60000	9.06900	9.97480		1440	.00800	5.88550	08590	.36620	.09018	.11860
14.668	7.553	.60060	8.56540	9.98310		1050	.00000	5.87810	01910	.38990	.09320	.07190
14.673	14.858	.69000	7.51480	10.00810		0090	.00000	5.86360	02340	.42960	.09610	.01070
14.673	39.056	.60060	6,48600	10.02130		0590	.00000	5.8526^	02250	.45350	.09760	01620
14.692	44.947 50.057	.60650	5.43820	10.03040		1390	.00000	5.05030	~.00490	.47160	.03820	03380
14.693	59.957	00002	08979	00024		0020	.00000	00095	.00011	.00299	.08873	00500
	GRADIENT	-,00000	100014									

.72240

.73230

.76790

.79180

.88940

.00341

.01890

.01890

.00970

.01090

.02065

-.00054

.13700

.13720

.14100

.14430

.14690

.00039

-.04490

+.Q4640

-.07230

-.08160

-.08260

-.00429

91003.

.60090

.60060

.69030

.00004

15.148

15.393

30.352

45.218

60.205

GRADIENT

14.788

14.743

14.783

14.805

14.814

14.814

-4.13630

-4.17270

-6.21870

-8.27030

-.13546

.60010 -10.34390

9.95310

9.96030

9.96960

9.98620

10.00840

-.00420

CARRIER DATA

( 01 DEC 75 1 (RGN060)

	REFERENCE	DATA						F	ARAHETRIC	DATA	
LREF -	500.0000 SQ.F 327.7800 IN. 348.0400 IN.	T. XMRP YMRP ZMRP	0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-19 = ELEVON = BETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-09 = HACH = PHI = BY =	.000 3.000 .000 .000
		RUN NO	. 780/ 0	RN/L =	3.24 GR	ADIENT INTER	VAL = -0	12.00			
ALPHAO 10.362 10.376 10.393 10.433 10.460 10.511	0Z -1.757 .812 5.122 12.363 27.851 42.980 46.793 GRADIENT	MACH .60010 .60050 .59910 .60010 .59950 .59930 00032	0X 78530 -1.13020 -1.71630 -2.71010 -4.84220 -6.92130 -7.44810 13600	DY 10.03920 10.01360 9.99440 9.97970 9.98430 9.99200 9.99030	BETAO .00820 .01490 .02190 .02460 .01500 .00710 .00820	PH1 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 9.67770 9.67470 9.67280 9.67120 9.65460 9.65550 9.65390 00044	8ETA .00770 .01270 .01040 .00750 .00390 .00540 .02120 00053	CL .76860 .77150 .77720 .72990 .60920 .62160 .82620	CD .14580 .14630 .14630 .14680 .14850 .14970 .15010	CLH 08450 08210 08800 09380 09380 09210 00137
		RUN NO	. 787/ 0	RN/L =	3.18 GA	ADIENT INTER	JAVI	12.09			
ALPHAO 14.755 14.757 14.766	.305 3.230 7.601	MACH .68060 .59980 .60080	DX -2.12040 -2.51630 -3.13560	DY 10.00190 9.98410 9.96978	BETAO .08580 .01160 .01720	PHI .00000 .00000 .00000	ALPHAH 9.69920 9.69540 9.69890	02650 .02650 .02840 .02880	CL .68250 .69150 .70790	CD .13190 .13310 .13480	CLM .01070 00270 02160

.01620

.01690

.08820

.00220

.00159

-.00810

.00000

.00000

.00000

.00000

.00000

.00000

9.68370

9,68250

9.56770

9.66150

9.65530

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

PAGE 21 1 01 DEC 75 1 CARRIER DATA (RGN051) CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA ALPHAC = 8.000 BETAC -.000 XHRP 1339,9000 IN.XC SREF = 5500.0000 SQ.FT. 3.000 ELV-IB = .000 ELY-08 = .080B IN.YC LREF = 327.7800 IN. YHRP ELEVON -5.088 HACH .600 190.8000 IN.ZC BREF = 2349.0400 IN. ZMRP PHI .000 BETAO -.000 .0300 SCALE = 10.000 10.000 DY DX GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.27 RUN NO. 736/ 0 CLH ALPHAH BETA CL CD BETAG PHI DY HACH DX **ALPHAD** DZ . 15000 ~.10136 9.72970 -.00620 .80040 10.05490 .00000 .59990 9.54260 .06500 10.233 -3.822 .79830 .14910 ~.09530 .01480 .00000 9.72840 -.00130 10.02460 .59948 9.09310 10.250 -.443 -.09380 9.72769 -.00370 .80130 .14910 .00000 8.47950 10.00670 .02180 3.946 .60060 10.273 -.00650 .80900 . 14930 -.09690 9.72290 7,44960 9.99240 .02410 .00800 .59960 10.306 11.425 9.72260 -.01050 .82380 .15050 -.09740 9.99710 .01400 .00800 5.36860 26.395 .59930 10.370 . 15230 -.09310 .00630 .00000 9.71680 -.00950 .83420 10.09370 41.249 .60010 3.30380 10.405 .15310 -.08960 .00000 9.71510 -.00120 .83920 2.45280 10.00480 .00340 47,343 .60010 10.417 .00000 -.00063 -.00037 .00103 .00003 -.00041 .00031 -.00013 -.13771 -.00191 GRADIENT .00/ 12.00 RN/L = 3.24 GRADIENT INTERVAL = RUN NO. 737/ 0 CLH ALPHAH DETA CL CO PHI ĐΥ BETAO MACH DX **ALPHAO** DZ .73130 .13660 .01210 9.75230 -.01040 8.11220 10.04110 .00360 .00000 .59960 14.551 -1.912 9.75390 -.00860 .73460 .13780 .00420 10.02940 .01050 .00000 7.66560 1.350 .60000 14.559 +.013% .13870 .00000 9.74870 .80140 .74350 .01380 5.795 .59930 7.05740 10.00480 14.571 9.74290 -.01120 .76840 .14650 -.03930 9.99330 .01360 .00000 6.02790 .59950 14.596 13.276 -.02110 .78780 .14400 -.06660 .00470 9.73330 9.99600 .00000 3.99750 14.628 27.980 .60890 -.07510 .14700 .80778 -.00090 .00000 9.72630 -.01210 .60090 1.69710 9.99740 43.114 14.652 -.08050 .00000 9.72200 -.00990 .81970 . 14940 -.16040 10.01600 -.01010 57.869 .60010 14.658 .00200 .00020 -.00398 .00225 -.00553 .00074 .00000 ~.00117 ~.13683 GRADIENT -.00016

-.06914

.00004

GRADIENT

.06479

-.00141

### CARRIER DATA

# (RGN0621 ( 01 DEC 75 )

			CKEO	****	<b>0. 3.</b>	_		•			
	REFERENC	E DATA							PARAMETRIC	BATA	
	500.0000 SQ.	FT. XMRP	- 1339.90	BD IN.XC				ALPHAC =	4.080	BETAC -	-5.000
				OD IN.YC				ELV-18 -	.000	ELV-08 *	3.000
	327.7800 IN.		-	00 IN.ZC				ELEVON -	5.000	HACH =	.600
	348.8488 IN.	, grane	- 150.00					EETAO =	.000	PHI =	cao.
ECALE -	.0300							OX -	.000	DY =	.000
		RUN NO.	649/ 0	RWL =	3.23	GRADIENT INTER	YAL = .	00.SI 100.			
ALFHAD	DΖ	MACH	ΩX	ĐΥ	GETAG	) PH1	ALPHAN	BETA	CL	CO	CLH
10.503	-1.137	.55940	.60340	1.02360	.0331	00080. 01	5.86240	-4.98170	.38910	.09820	.03030
10.484	1.865	.59910	.60690	1.69100	.0289	00000.	5.65990	-4.97100	.39940	.08860	.038 <b>60</b>
10.483	6.479	.60010	.29110	1.07369	.0159	00000	5.85550	-4.97800	.40150	.09050	.02090
10.482	14.163	.59930	23620	1.09950	.0059	00000. 08	<b>5.8</b> 5080	-4.97850	.42070	.09280	<b>00150</b>
10.565	28.705	.59930	-1.23230	1.11960	0033	00000. 05	5.83910	-4.97200	.44950	.09440	02640
10.508	37.359	.59920	-1.82790	1.12640	0848	00000.	5.83380	-4.98120	.46180	.09480	03290
10.511	44.033	.59940	-2.22840	1.12900	003	70 .00000	5.83110	-4.98850	.46930	.09485	03860
10.0	GRADIENT	.00021	05767	.00897	0023	20000.	00094	00150	.00259	.00043	00381
		RUN NO.	. 648/ 0	RN/L =	3.23	GRADIENT INTER	IVAL = .	.00/ 12.00			•
ALPHAD	ĐΖ	HACH	אמ	ĐY	BETA	D PH1	ALPHAH	BETA	CL.	CD	CLH
14.615	1.009	.59980	36780	.95830	.021	60080. 68	5.88900	-4.94920	.30940	.08140	.12230
14.791	4.326	.60030	59540	.96740	.0161	00000.08	5.88950	-4.94670	.31430	.CB130	.12890
14.781	8.540	.60010	88920	.99440	.016	0000D as	5.88550	-4.96920	.32880	.08330	. 11040
14.774	15.930	.60800	-1.39450	1.01820	.003	00000.	5.87180	<b>-4.979</b> 50	.35720	CE880.	.07180
14.772	31.119	.59970	-2.44890	1.04858	005	00000. 00	5.85680	-4.97430	.40500	.09240	.01990
14.770	46.180	.59930	-3.47810	1.04640	007	80000.08	5.84340	-4.97320	.43530	.09360	00930
14.771	61.235	.60020	-4.51688	1.06280	016	30 .08990	5.93610	-4.98050	.45550	.09420	02520

.00000

-.00035

-.00277

18900.

.00026

TABULATED SOURCE DATA - CARD DATE OI DEC 75

(RGN063) ( 01 DEC 75 ) CARRIER DATA

PAGE 23

CARD 747/1 OI SI CARRIER DAIA CHORDES	
REFERENCE DATA PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC	-5.000 3.000 .600 .000
RUN NO. 587/ 0 RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00	
ALPHAO DZ MACH DX DY BETAO PHI ALPHAH 8ETA CL CD  10.405 -1.205 .59940 10.77730 1.90140 .03370 .00000 5.86870 -4.98130 .42240 .08840  10.394 1.344 .60020 10.60790 1.91000 .02940 .00000 5.86510 -4.97040 .42120 .08830  10.395 6.229 .60050 10.27400 1.93450 .02040 .00000 5.86540 -4.96980 .42840 .09020  10.414 13.845 .60080 9.74720 1.95870 .01170 .00000 5.86110 -4.97800 .44270 .09190  10.432 28.880 .60030 8.71070 1.97770 .00290 .00000 5.85270 -4.97890 .45610 .09380  10.441 43.758 .59900 7.68350 1.98520 .00130 .80000 5.84450 -4.98020 .48280 .09440  10.445 48.107 .60080 7.38000 1.99680 .00000 .00000 5.84530 -4.97980 .48690 .09440  GRADIENT .0000866935 .0050200164 .0000000055 .00012 .00147 .00039	CLH .01500 .02550 .01310 00680 03090 04280 04490 00254
RUN NO. BEEN D NAVE - S.E.D GENERAL PHAN BETA CL CD	CLH
ALPHAO DZ HACH DX D1 02050 00000 5.75210 -4.94670 .34000 .07750	.15130
14.748 1.142 .60040 9.5400 1.61420 00000 5.75270 -4.95260 34400 .07890	.13860
14.723 4.240 .5970 -35390 1.8450 0.0000 5.74690 -4.97690 .35390 .08210	.11880
14.719 8.654 .59370 5.5577 1.65050 .00000 5.73890 -4.97240 .37590 .08660	.07520
14.719 16.242 .59340 8.5477 1.60000 1.6000 5.72550 -4.98170 .41290 .00000	.0555
14.721 31.044 JOSEP 0.3000 1.0000 5.71610 -4.98100 .43830 .09220	o´ 🛪
14.728 46.344 .59340 6.5730 1.6030000300 5.70340 -4.98780 .45630 .09280	' ≥370
14.727 60.991 .59900 5.56340 1.90280 3.00830 3.70370 7.0081 .0088 .009130081 .0088 .009130081	~ UD434

.00417

-.06566

-.00009

GRADIENT

CA28 747/1 01 51

CARRIER DATA

(RGN064) ( 81 DEC 75 )

PARAMETRIC DATA

# REFERENCE DATA

SCALE = .0300 BETAO000 PHI		=	327.7800 IN. 2348.0400 IN.	XMRP YMRP ZMRP	=	1339.9000 IN.XC .0000 IN.YC 190.8000 IN.ZC	ALPHAC = ELV-IB = ELEVON = BETAO =	4.000 .000 5.080 .089	ELV-C HACH PHI	
----------------------------	--	---	-------------------------------	----------------------	---	--	---	--------------------------------	----------------------	--

211EF = 1	2200.0000 2	U.FI. NEG	- 1335.	3000 111.00				7141 1010			_,,
LREF =	327.7800 1	N. YHR	. = 0	0080 IN.YC				ELY-IB =	.000	ELV-08 =	3.000
	2348.0400 !!	N. ZMRF	= 190.	8000 IN.ZC				ELEVON -	5.080	MACH =	.600
SCALE =	.0300							BETAO -	.009	PHI =	.080
	10410							DX =	20.000	BY =	000.
		RUN NO	670/ 0	RN/L =	3.30 GR/	DIENT INTER	WAL	00/ 12.00		٠	•
ALPHAO	DŽ	HACH	ĐΧ	DY	DETAO	PH!	ALPHAH	BETA	CL	CO	CLH
10.318	3.700	.60010	28,41600	2.83640	.02060	.00000	5.84730	-4.95440	.43720	.08920	.01200
10.322	6.553	.59970	20.22210	2.83310	.01590	.00000	5.84340	-4.98620	.44120	.08970	.00170
10.343	11.191	.60090	19.89920	2.64400	.01170	.00000	5.84120	-4.99390	.44750	.09100	00830
10.354	18.631	.59990	19.38810	2.84640	.00640	.00000	5.83970	-4.98650	.45780	.09220	02150
10.379	33.918	.60090	18.33430	2.85720	.00100	.00000	5.03370	-4.99860	.47490	.09380	03890
10.398	48.230	.60020	17.34840	2.66390	80110	.00000	5.82690	-4.98840	.48730	.09410	04530
	GRADIENT	.00012	08905	.00114	00116	.00080	00078	00010	.00137	.00024	00242
		RUN NO	671/ 0	RN/L =	3.30 GR/	DIENT INTER	IVAL	00/ 12.00			
ALPHAO	DZ	MACH	DX	DY	BETAD	PHI	ALPHAH	BETA	CL	CD	CLH
14.501	7.815	.60010	18.90670	2.72590	.01240	.00000	5.86040	-4.98530	.39000	.08230	.11240
14.504	11.048	.60020	10.69440	2.72740	.00960	.00000	5.65980	-4.98560	39780	.08450	.09130
14.508	15.518	.60040	18.37820	2.73100	.00590	.00000	5.85870	-4.98820	.40740	.09660	.07160
14.516	22.987	.60090	17.86930	2.73860	.80130	.00000	5.85070	-4.98550	.42290	.CB910	.04110
14.524	38.017	.59990	16.83330	2.74690	.00110	.00000	5.64180	-4.98930	.44710	.09160	.00540
14.529	52.676	.60080	15.82050	2.76460	00420	.00000	5.83510	-4.98928	.46540	.09270	01500
14.527	68.431	.60030	14.73000	2.77580	01160	.00000	5.83000	-4.98810	.47890	.09340	03430
	GRADIENT	-00003	06877	.00846	00087	.00000	00019	00040	.05241	.00068	00653

TABULATED SOURCE DATA - CA20 DATE OF DEC 75

			CY50	747/ L	01 51		CARRIER DAT	A	(RGN0E	5) (0) 06	C 75 1
•	n===n=145	DATA							PARAMETRIC	DATA	
LREF *	REFERENCE 500.0000 50.F1 327.7800 IN. 348.0400 IN. .0300		= .00 × 190.00	00 IN.XC 00 IN.YC 00 IN.ZC	1.21	ORADIENT IN		ALPHAC = ELY-1B = ELEVON = BETAO = DX =	8.000 ,000 5.000 .000 .000	BETAC = ELY-OB = HACH = PH1 * DY *	-5.080 3.000 .800 .000 .000
ALPHAO 10.295 10.303 10.329 10.366 10.440 10.469	DZ -2.880 .275 4.787 12.206 27.766 42.705 47.740 GRADIENT	MACH .59910 .59920 .59920 .59950 .59990 .60000 .59940	DX 69300 -1.10310 -1.71740 -2.73470 -4.89330 -6.96630 -7.66500 13613	DY .97220 1.02140 1.07390 1.11610 1.15250 1.16390 1.16600		130 .0000 460 .0000 930 .0000 850 .0000 010 .0000 170 .0000	9.73380 9.73230 9.72900 9.72430 9.71690 9.71310	-4.98470 -4.98020 -4.98730 -4.97920 -4.97340 -4.99020 -4.97990	.78130 .77560 .77570 .78900 .80960 .82440 .82890	.14190 .14030 .14050 .14160 .14380 .14500 .14530	11198 09650 09938 10160 09920 09810 09770 00018
		RUN NO	. 651/0	RN/L =	3.22	GRADIENT IN	TERYAL =	.00/ 12.00			~ W
ALPHAO 14.666 14.656 14.666 14.586 14.713	DZ 982 2.094 6.577 14.365 29.395 44.077 GRADIENT	HACH .60030 .60050 .60090 .60070 .60010 .59950	0X -2.00400 -2.41440 -3.02330 -4.69400 -6.16750 -8.20840 13582	0Y .90170 .94080 .98050 1.02280 1.06310 1.07790	.04 .02 .01 .01 .01	7AO PHI 5040 .0000 7440 .0000 7720 .0000 7090 .0000 7090 .0000 7090 .0000	9.75530 9.75650 9.75280 9.73960 9.73030	-4.94790 -4.94600 -4.94030 -4.98110 -4.98140 -4.98880	CL .68450 .68670 .69900 .72240 .75980 .78630 .00292	.12890 .13270 .13710 .13970	CLM 00378 00600 02230 04580 06690 07780 00364

CARRIER DATA

(RGN068) ( 01 DEC 75 ) PARAHETRIC DATA

# REFERENCE DATA

SREF	-	5500.0000	SQ.FT.	XMRP		1339.9000	IN.XC
LREF	-	327.7800	IN.	YMRP	•	.0000	IN.YC
BREF	=	2348.0400	IN.	ZHRP	-	190.8000	IN.ZC
SCALE	=	.0300					

AC =	8.000	BETAC =	-5.000
iB =	.000	ELV-08 =	3.000

ALPHAC = 8.000 BETAC = -	·5.000
ELV-18 = .000 ELV-08 =	3.000
ELEVON = 5.000 HACH =	.600
PETAO = .880 PHI =	.000
DX = 10.000 DY =	.000

RUN NO.	690/	0	RN/L =	3.24	GRADIENT INTERVAL .	.607 12.00

ALPHAO	DZ	MACH	DX	DY	BEIAU	PHI	ALPBAH	DCIA	UL.	CU	CLII
10,286	-2.705	.59930	9.36200	1.88080	.07970	.00000	9.73680	-4.99820	.80470	.14190	12490
10.219	.329	.60060	8.95250	1.90700	.05110	.00000	9.73590	-4.97970	.80070	.14120	11260
10.243	4.772	.60000	8.34240	1.54530	.04190	.00000	9.73540	-4.98670	.80180	.14110	10910
10.288	12.369	.60000	7.29150	1.93070	.02420	.00000	9.73300	-4.98620	.80970	. 14200	11010
10.356	27.344	.59990	5.21050	2.01489	.00890	.00000	9.73050	-4.93540	.82310	. 14400	10530
10.397	42.540	.59940	3.09140	2.02090	,00530	.00000	9.72630	-4.98720	.83540	.14520	10160
10.497	48.511	.60000	2.25840	2.02640	.00300	.00000	9.72420	-4.98788	.84120	. 14570	10240
	GRADIENT	00014	13734	.00662	08432	.00000	00011	00158	.00025	00002	.00079

#### GRADIENT INTERVAL = .00/ 12.00

ALPHAD	DZ	MACH	DX	DY	BETAD	PHI	ALPHAH	BETA	CŁ	CD	CLH
14.592	448	59960	7.86780	1.78020	.05410	.00000	9.76400	-4.95480	.72880	.12750	00010
14.594	2.988	.60010	7.41550	1.81260	.04180	.00000	9.76290	-4.95290	.73170	. 12870	00680
14.610	7.309	.60030	6.81330	1.84130	.03010	.00000	9.75780	-4.95500	.73990	.13100	02130
14.635	14.529	.60000	5.01930	1.88240	.01770	.00080	9.75460	-4.99580	.75540	.13390	04450
14.677	29.855	.59980	3.70390	1.90670	.00380	.00000	9.74490	-4.98070	.76260	.13790	05630
14.699	44.920	.59970	1.61150	1.92310	.00160	.00000	9.73540	-5.00370	.80310	.14030	~,08040
-	59.693	.60060	45210	1.93410	00650	.00000	9.73180	-4.98710	.81990	. 14230	09690
14.711	CEG, CC	.00000	13584	.00652	80266	.80003	00116	00048	.00186	.60052	00329

DATE OI DEC 75

GRADIENT

.00021

TABULATED SOURCE DATA - CA20

747/1 01 51

CARRIER DATA

1 81 DEC 75 3

	REFERENCE	DATA		-	PARAMETRIC DATA						
	TIES BUREITY			<b>.</b>				ALPHAC =	B.000	BETAC =	-5.000
SREF = 5	500.0088 SQ.F			000 IH.XC				ELY-18 *	.000	ELV-08 =	3.000
LREF =	327.7800 IN.	YHRP		ODS IN.YC				ELEVON =	5.000	HACH =	.500
BREF = 2	348.0400 IN.	ZHRP	= 190.8	000 IN.ZC				BETAO =	.000	PHI =	.000
SCALE =	.0300							DX =	20.000	DY =	.908
		RUN NO.	673/ 0	RN/L =	3.28 GR/	DIENT INTER	VAL = .	00/12.00	•		
	n.**	MÁCH	DX	DY	BETAD	PHÍ	ALPHAH	BETA	CL	CD	CLH
ALPHAO	DZ	.60040	19.17340	2.82560	.05290	.00000	9.73230	-4,99720	.81030	.14190	12960
10.219	-1.170	.59938	18.74300	2.83210	01020.	.00000	9.73270	-4.98830	.80890	.14110	12010
10.227	1.973	.60050	18.12870	2.85480	.02700	.00000	9.73250	-4.99490	.80980	. 14 190	1 1420
10.253	6.418	.59970	17.11080	2.87030	.01650	.00000	9.73000	<del>-4</del> .98660	.81710	.14280	11230
10.286	13.777	.60080	14.99660	2.88840	.00590	.00000	9.72870	-4.98820	.82830	.14500	10350
10.356	28.938	.59940	12.87230	2.89650	.00370	.00000	9.72290	-4.98800	.83860	. 14580	10090
10.397	44.164 49.620	.59970	12.11340	2.89960	.00120	.00000	9.71950	-4.98780	.84180	. 14630	10220
10.406	GRADIENT	.00027	13820	.00511	00272	.00000	00005	0014B	.00020	.00018	.00133
		RUN NO	. 672/ 0	RN/L =	3.28 GR	ADIENT INTER	YAL	00/ 12.80			
	0.7	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
ALPHAO	DZ 1.887	.59920	17.50970	2.70460	.03430	.00000	9.75470	-4.95350	.75510	.13100	00830
14.374		.59960	17.08360	2.71260	.02630	.00000	9.75110	-4.94660	.75900	.13250	01740
14.386	5.002	.60070	16.48890	2.74660		.00008	9.75120	-4.98660	.76550	.13440	02750
14.403	9.317 16.929	.60030	15.44000	2.76710	.01659	.00000	9.74480	-4.99620	.77739	.13680	04470
14.432	32.128	.68020	13.33650	2,77920	.00190	.00000	9.73740	-4.98890	.79920	.14010	06180
14.474	36.168 46.955	.60020	11.26920	2.78500	00180	.00000	9.73650	-4.98880	.81340	. 14220	07460
14.499	60.73B	.60070	9.37410	2.79800	08980	.00000	9.72720	-4.98790	.82690		08500
14.362	80.738	4,000	- 17741	00579	00205	.00000	00044	08475	.00141	.00046	00257

.00579

**→.00205** 

Original page is of poor quality

GRADIENT

(RGN058) ( 81 DEC 75 )

CA20 747/1 01 51

CARRIER DATA

-.00112

.00000

REFERENCE	DATA						í	PARAMETRIC	DATA	
•••		<b>.</b>	1000 IN.YC				ALPHAC = ELV-18 = ELEVON = ETAO = DX =	4.000 .000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	-5.000 3.000 .600 .000
	RUN NO.	776/ 0	RN/L =	3.29	GRADIENT INTER	. = .KV	00/ 12.00			
DZ -1.143 1.191 5.570 13.286 28.364 43.310 47.055 GRADIENT	MACH .60850 .59940 .59990 .59990 .69970 .60020 .60050	DX .82500 .66590 .36930 15620 -1.18290 -2.26460 -2.45960 06774	DY 11.02580 11.02800 11.02810 11.04100 11.06950 11.08460 11.08530 .00139	.033 .033 .020 .019 .005 .003	30 .00000 10 .00000 30 .00000 80 .00000 00 .00000 70 .00000 30 .00000	ALPHAH 5.82390 5.82210 5.81590 5.81020 5.80160 5.79490 5.79340 00142	BETA -4.98300 -4.98350 -4.98570 -4.97390 -4.99160 -4.99080 00090	CL .39610 .40140 .41350 .43060 .45630 .47440 .47860	CD .69110 .09170 .09310 .09550 .09550 .09530 .09530	CLH04290040500401004010043700511005200 .00009
	RUN NO	. 782/ 0	RN/L =	3.21	GRADIENT INTER	VAL	00/ 12.08			
02 1.732 4.566 8.660 16.510 31.452 46.666	MACH .59980 .59980 .59970 .59970 .59980	0X 39120 58540 68970 -1.41720 -2.44000 -3.48110	DY 10.90410 10.91290 10.92830 10.95100 11.80070 11.01650	180. 180. 180. 190. 190.	50 .00000 10 .00000 600 .00000 50 .00000 810 .00000	ALPHAN 5.85610 5.85110 5.84790 5.83890 5.82350 5.81640 5.80690	BEY.* -4.98035 -4.98100 -4.97830 -4.98390 -4.98490 -4.99550 -4.99090	CL .32570 .33390 .35030 .37670 .41610 .44140	CD .08370 .08420 .08670 .08970 .09360 .09460	CLH .03730 .03930 .02530 .00820 01770 02480 03870 00181
•	02 -1.143 1.191 5.570 13.296 28.354 43.310 47.055 GRADIENT	327.7800 IN. YMPP 348.0400 IN. ZMRP .0300  RUN NO.  DZ MACH -1.143 .60050 1.191 .59940 5.570 .59990 13.286 .59970 43.310 .60020 47.055 .60050 GRADIENT .00011  RUN NO  DZ MACH 1.732 .59980 1.732 .59980 8.860 .59970 31.452 .59980 46.606 .59980	500.0000 SQ.FT. XHRP = 1339.5 327.7800 IN. YHRP = .0 348.0400 IN. ZHRP = 190.6 .0300  RUN NO. 776/ 0  DZ	DZ MACH DX DY  13.286 .5990 -1.829 11.08960  47.055 .60050 -2.4560 11.08560  GRADIENT .00011 -06774 .00139  RUN NO. 762/ 0 RN/L =  DZ MACH DX DY  -1.143 .60050 .82500 11.02580  1.191 .5990 .56590 11.02810  28.364 .5990 -1.5620 11.04100  28.364 .5990 -1.8290 11.06950  47.055 .60050 -2.4560 11.08460  CRADIENT .00011 -06774 .00139  RUN NO. 762/ 0 RN/L =  DZ MACH DX DY  -1.143 .5990 -39120 10.90410  -1.144 .5990 -39120 10.90410  -1.144 .5990 -39120 10.90410  -1.1456 .5990 -39120 10.90410  -1.1456 .5990 -39120 10.90410  -1.1456 .5990 -39120 10.90410  -1.1456 .5990 -39120 10.90410  -1.1456 .5990 -39120 10.90410  -1.1452 .5990 -3.48110 11.00570  -1.1452 .5990 -3.48110 11.00570  -1.1452 .5990 -3.48110 11.00570	500.0000 SQ.FT. XHRP = 1339.9000 IN.XC 327.7800 IN. YHRP = .0000 IN.YC 348.0400 IN. ZHRP = 190.8000 IN.ZC .0300  RUN NO. 776/ 0 RN/L = 3.29  DZ NACH DX DY BETAL 1.191 .59940 .66590 11.02590 .033 1.191 .59940 .66590 11.02200 .033 5.670 .59990 .36930 11.02210 .029 13.286 .59990 -1.5920 11.02400 .019 28.364 .59970 -1.18280 11.04100 .019 28.364 .59970 -1.18280 11.06950 .005 43.310 .60020 -2.26400 11.02460003 47.055 .60050 -2.45960 11.08530004 47.055 .60050 -2.45960 11.08530004 CRADIENT .0001106774 .00139000  RUN NO. 782/ 0 RN/L = 3.21  DZ MACH DX DY BETAL 1.732 .5993039120 10.90410 .031 4.566 .5996056540 10.91280 .034 1.592 .5995056540 10.91280 .034 16.510 .59970 -1.41720 10.95100 .016 31.452 .59940 -2.44000 10.98190 .002 46.606 .59980 -3.48110 11.00070006 61.410 .60010 -4.49630 11.01650015	\$600.0000 \$0.FT. XMRP = 1339.9000 IN.XC \$277.7800 IN. YMRP = .0000 IN.YC \$348.0400 IN. ZMRP = 190.8000 IN.ZC \$348.0400 IN.ZC \$348.	### SECO . COCCO SQ.FT. XHRP = 1339.9000 IN.XC 327.7800 IN. YHRP = .0000 IN.YC 348.0400 IN. ZHRP = 190.8000 IN.ZC	REFERENCE DATA  500.0000 SQ.FT. XHRP = 1339.9000 IN.XC  327.7800 IN. YHRP = .0000 IN.YC  348.0400 IN. ZHRP = 190.8000 IN.ZC  RUN NO. 776/ 0 RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00  RUN NO. 776/ 0 RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00  DZ NACH DX DY BETAO PHI ALPHAH BETA  -1.143 .60650 .62500 11.02580 .03330 .00000 5.82390 -4.98350  1.191 .59940 .66590 11.02200 .03310 .00000 5.82390 -4.98350  5.570 .59990 .36930 11.02210 .02930 .00000 5.81020 -4.96350  13.286 .59990 -1.15220 11.04100 .01980 .00000 5.81020 -4.97390  28.364 .59970 -1.18290 11.06850 .00500 .00000 5.81020 -4.993160  43.310 .60020 -2.26460 11.0846000370 .00000 5.79490 -4.99160  47.055 .60050 -2.45960 11.0846000370 .00000 5.79490 -4.99160  47.055 .60050 -2.45960 11.0853000430 .00000 5.79490 -4.99160  47.055 .60050 -2.45960 11.0953000430 .00000 5.79490 -4.99080  GRADIENT .0001106774 .0013900097 .000000014200059   RUN NO. 762/ 0 RN/L = 3.21 GRADIENT INTERVAL = .00/ 12.00  DZ MACH DX DY BETAO PHI ALPHAH BEY.  1.732 .5993039120 10.99100 .03150 .00000 5.85610 -4.98030	REFERENCE DATA  500.0000 SQ.FT. XHRP = 1339.9000 IN.XC	EGO. 0000 SO.FT. XHRP = 1339.9000 IN.XC  327.7800 IN. YHRP = .0000 IN.YC  348.0400 IN. ZHRP = 190.8000 IN.ZC  RIRI NO. 776/ 0 RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00  RIRI NO. 776/ 0 RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00  RIRI NO. 776/ 0 RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00  DZ NACH DX DY BETAO PHI ALPHAH BETA CL CD  -1.143 .60030 .62500 11.02500 .03310 .00000 5.62390 -4.98300 .39610 .03110  5.570 .5990 .35930 11.02500 .03310 .00000 5.8210 -4.98350 .40140 .09170  13.286 .5990 -1.5620 11.02100 .02930 .00000 5.81590 -4.98570 .41350 .09310  23.310 .60020 -2.20400 11.08460 .00500 .00000 5.79490 -4.99160 .47440 .09530  47.055 .60050 -2.45960 11.0853000430 .00000 5.79340 -4.99160 .47440 .09530  47.055 .60050 -2.45960 11.0853000430 .00000 5.79340 -4.99160 .47480 .09530  GRADIENT .0001106774 .0013900087 .00000 5.85610 -4.98330 .32570 .00032  BETAC = ELV-18 = .000 ELV-08 = ELV-08 = .0000 DT

-,00081

.00341

-.07001

DATE OF DEC 75

TABULATED SOURCE DATA - CARD

-.06922

-.00007

GRADIENT

-.00001

PAGE 29 ( 01 DEC 75 1 (RGN069) CARRIER DATA 747/1 01 51 CYSD PARAMETRIC DATA REFERENCE DATA -5.000 ALPHAC = 4.000 BETAC 5500.0000 SQ.FT. XHRP 1339.9000 IN.XC ELY-08 = 3.600 .000 ELV-18 = .0000 IN.YC YHRP LREF 327.7800 IN. .600 ELEVON = 5,000 HACH 190.8000 IN.ZC ZHRP BREF 2348.0400 IN. = OATES .000 PHI .000 .0300 SCALE = 10.000 10,000 DY ĐΧ GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.24 RUN NO. 97.0 CL. ÇĎ CLH ALPHAH BETA IHS DY BETAO DZ MACH DΧ ALPHAO -.04750 .42340 .08990 5.86230 -4.99090 11,92480 .02940 .00000 .60090 10.66020 -2,280 10.422 .09050 -.03780 .00000 5.86150 -4.99070 .42630 .03080 .60050 10.63330 11.90880 10.405 1.098 -.04140 -4.99290 .43440 .09220 .00000 5.05890 .02640 .60010 10.31780 11.91340 5.675 10.409 .09360 -.04030 -4.98880 .44660 11.92200 .01880 .02002 5.05720 9.81090 .60030 10.422 13.013 .46670 .09520 -.04540 .86440 .00000 5.64830 -5.00120 11.94740 8.76710 10.450 28.103 .60030 -.05120 .09520 5.84490 -4.99910 .48200 -.00230 .00000 7.71670 11.95920 43.255 .60080 10.460 -.05520 .00000 5.84130 -4.99850 .48550 .09490 11.96490 -.08590 .59990 7.46120 46.967 10.461 .00177 .08837 -.00079 -.00048 -.00096 .00000 -.00057 -.06992 .00100 GRADIENT -.08089 GRADIENT INTERVAL -.00/ 12.00 0/ 0 RN/L = 3.24 RUN NO. CD CLH CL SETAG PHI ALPHAH BETA DY DZ HACH DX **ALPHAO** .36440 .08160 .05970 .02130 .00000 5.88610 -4.98800 .60030 9.56110 11.80390 14.693 .236 .05760 .00000 5.88520 -4.98830 .36740 .08170 .59990 9.34130 11.79350 .02210 14.656 3.450 .08520 .04130 5.88170 -4.98550 .37030 9.01260 11.80250 .01790 .00000 14.666 B. 165 .59970 .39760 .08860 .01730 -4.99850 .00960 .00000 5.87290 11.82650 15.415 .69030 0.51160 14.674 -.01170 .09270 5.86430 -5.01000 .43030 -.00230 .00000 .59960 7.49850 11.85690 14.676 30.037 -5.00350 .45150 .09390 -.02210 5.85630 11.87390 -.00980 .00000 6.44230 14.680 45.279 .59970 .09400 -.03590 .46890 -.01810 .00000 5.84740 -4.99860 11.69030 60.620 .60010 5.37930 14.681 -.00135 .00000 -.00057 .00034 .00179 .00048

CLH

CVSD	747/1	01 51

CARRIER DATA

(RCH070) ( 01 DEC 75 )

DEE	FREN	T.F	DA I	Α

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC .0000 IN.YC YMRP = LREF - 327.7800 IN. ZMRP = 190.8000 IN.ZC BREF = 2348.0489 IN. .0300 SCALE =

### PARAMETRIC DATA

DX = 10 000 = 1

RUN NO. 779/ 0 RN/L = 3.28	ORADIENT INTERVAL
----------------------------	-------------------

ALPHA0 10.348 10.363 10.393 10.425 10.479 10.511	07 -2.449 .833 5.429 12.730 27.999 42.823 46.832 GRADIENT	MACH .68020 .60030 .60090 .60070 .60040 .60060 .60000	0X 76020 -1.14560 -1.77560 -2.77410 -4.67390 -6.92000 -7.47470 13708	DY 11.07990 11.06330 11.06390 11.07080 11.03480 11.11030 11.11160 .00013	BETAO .03430 .04050 .03540 .03250 .01510 .00500 .00260	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAM 9.67310 9.67390 9.67190 9.66910 9.66510 9.65760 9.6560 00044	BETA -4.95870 -4.95980 -4.97940 -4.98290 -4.98870 -4.98800 -4.97380 00809	CL .76910 .77390 .76050 .76980 .80900 .82390 .82660	CD .14100 .14070 .14100 .14200 .14200 .14420 .14420	CLH 14790 14160 13500 12170 10790 10690 10720 .00144
--	---	--	--	--	---	---	---	---	--	--	--

#### .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.19 RUN NO. 786/ 0

ALPHAO 14.727 14.734 14.749 14.763 14.754 14.789 14.813	DZ .224 3.279 7.626 15.024 30.355 45.083 60.285 GRADIENT	MACH .59910 .60060 .60060 .60080 .60080 .60050	DX -2.11200 -2.52880 -3.12530 -4.13640 -6.23900 -8.26830 -10.37530 13709	DY 10.95930 10.95100 10.95360 10.96920 10.99580 11.02160 11.04200 00065	BETAO .03290 .03560 .03220 .02370 .00990 00320 01020 00014	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 9.69510 9.69350 9.68840 9.69090 9.67220 9.66110 9.65630 00092	BETA -4.97390 -4.97670 -4.98000 -4.97890 -5.00080 -4.97740 -4.9742000082	CL .58110 .69310 .70840 .73140 .76510 .78860 .80820 .00368	.12660 .12660 .13070 .13380 .13800 .13990 .14160	05260 06430 07370 08110 08280 09010 09590 00155
--	--	--	--	---	--	--	--	--	--	--	--

DATE OI DEC 75

TABULATED SOURCE DATA - CARD

PAGE 31

			CY50	747/1	01 \$1	Ċ	ARRIER DATA	A	CRGN07	1) ( 01 DE	C 7\$ 1
	REFERENC	E DATA						8	PARAHETRIC	DATA	
LREF =	500.0000 SQ. 327.7800 IN. 348.0400 IN. .0300		.0	080 IN.XC 080 IN.YC 080 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	8.000 .000 5.000 .000	BETAC = ELY-08 = MACH = PHI = DY =	-5.000 3.000 .600 .000
		RUN NO.	740/ C	RN/L =	3.25	GRADIENT INTER	VAL	CD/ 12.00			
ALPHAD 10.224 10.249 10.273 10.307 10.375 10.407	DZ -3.964 -1.071 3.575 11.249 26.103 41.260 47.378 GRADIENT	HACH .59950 .59930 .59930 .59930 .59980 .59940 .59950	DX 9.54340 9.14780 8.51140 7.45290 5.39230 3.28540 2.42810 13793	DY 11.98930 11.96350 11.95450 11.96080 11.98210 11.99460 .00082	9577 .021 .03 .033 .031 .001 .000 00	010 .00000 150 .00000 510 .00000 020 .00000 380 .00000 440 .00000	ALPHAN 9.72770 9.72740 9.72430 9.72660 9.72030 9.71560 9.71360 00030	BETA -4.98500 -4.99230 -4.99380 -5.00460 -5.00760 -5.00550 -4.98920 00141	CL .79420 .79520 .79550 .80520 .81960 .83270 .83830	CD .14300 .14260 .14270 .14370 .14540 .14610 .14640	CLH 15310 14820 13960 12640 11050 10730 10730 .00172
ALPHAO 14.548 14.553 14.570 14.599 14.637 14.659	02 -1.395 1.311 6.124 13.813 28.016 43.625 59.608 GRADIENT	RUN NO.  HACH .59950 .60060 .59960 .60080 .60060 .60060	7417 8 0x 8.03359 7.66360 7.00280 5.93860 3.85530 1.80890 28100	RN/L =  DY  11.85890 11.85900 11.85930 11.87690 11.91350 .60064	BET .02 .02 .01 .00	AO PHI 640 .00000 930 .00000 630 .00000 810 .00000 1400 .00000 1480 .00000	ALPHAH 9.75250 9.75100 9.74500 9.74180 9.73430 9.72660 9.72080	BETA -4.98160 -4.99380 -5.00250 -5.00110 -5.00730 -5.0060 -5.00520	CL .72500 .72990 .74130 .75630 .78180 .80240 .81810	. 13370 . 13670 . 14050 . 14240 . 14370	CLM 05240 05260 06260 07330 08460 09260 09260

.09230

.09310

.00065

.44810

.46780

.00434

-.02660

-.04470

-.00762

DAIL D. DE											
			CAED	747/1	01 51	C	KRIER DATA	•	(RGN07	5) (81 DE	c 75 )
	REFERE	ACE DATA						i	PARAMETRIC	DATA	
	500.0080 S	O.FT. XHRP N. YHRP	00	00 IN.XC				ALPHAC = ELV-18 = ELEVON =	4.000 .000 5.000	BETAC = ELV-CB = HACH =	5.000 3.000 .600
BREF = 2 SCALE *	11 0040.64E9 00E0.	v. ZMRP	• 19D.8D	180 IN.2C				BETAO =	.000	PHI =	.030 1 <b>0.</b> 000
		RUN NO	, 777/ D	RN/L =	3.27 GR	ADIENT INTER	VALC	10/ 12.00			
ALPHAO	ĐΖ	насн	DΧ	DY	BETAO	PHI	ALPHAH	BETA	CL	CD.	CLH
10.561	-1.260	.60020	.82840	8.80620	.04300	.00000	5.82950	5.04410	.39350	.09100	.074B0
10.557	1.334	.60070	.65390	8.81240	.03620	.00000	5.82790	5.04680	.39860	.09140	.06470
10.536	5.878	.60010	.34760	B.81490	.03650	.00000	5.82070	5.02710	.41320	.09220	.03930
10.536	13.042	.60030	13900	8.81520	.02440	.00000	5.81370	5.02260	.43260	.09270	.09150
10.555	28.032	.60839	-1.15930	8.82050	.01180	.00000	5.80310	5.03420	.46200	.09340	04000
10.562	43.587	.59390	-2.23230	8.93930	.00450	.00080	5.79570	5.03470	.48280	.09330	05560
10.595	47.871	.60850	-2.46160	8.83200	.00240	.00090	5.79470	5.03480	.48470	.09340	05670
10.545	GRADIENT	00013	06740	.00055	00125	.00000	00159	80478	.00321	.00018	00559
		RUN NO	. 783/ 0	RN/L =	3.21 GR	ADIENT INTER	VAL = .0	12.00			
ALFHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
14.885	1.660	.60010	39220	8.87450	.03220	.00000	5.86770	5.000 <b>70</b>	.30760	.07990	. 19760
14.855	4.767	.59920	60880	8.88830	.02780	.00000	5.86470	5.01010	.31720	.08160	.18370
•	8.930	.59950	89480	6.88570	.02380	.00000	5.85730	5.01040	.33880	.08460	.14170
14.851	16.495	.59930	-1.41200	8.90170	.01880	.00800	5.84480	4.99980	.37290	.08870	.07830
14.843 14.833	31.538	.60060	-2.44310	8.92270	.08830	.00000	5.02820	4.97960	.41860	.09120	.00760
14.855	31.335		_,,,,,,						44.010	00270	_ 02660

.00000

.00000

.00000

5.81730

5.B1000

-.00145

4.98730

4.93860

.00126

8.93750

8.95050

.00142

-.00930

-.00770

-.00113

-3.48380

-4.51590

-.06911

.60030

.59980

-.60807

31.538

46.682

61.660

**GRADIENT** 

14.833

14.829

GRADIENT

TARULATED SOURCE DATA - CA20

-.06933

-.00012

DATE OI DE	75	TABUL	ATED SOURCE	DATA - CA	20						
			CYSO	747/1	01 51	c	ARRIER DATA		tRGN073	3) ( 01 DE	C 75 )
	REFERENC	E DATA							PARAHETRIC	DATA	
	TIES ESTE									OCT.0	5.000
SREF = 5	500.0000 SQ.	FT. XHRP	= 1339,98	300 IN.XC				ALPHAC =	4.000	BETAC =	3.000
-	327.7880 IN.	YMRP	Ci	080 IN.YC				ELY-18 =	.000	ELY-08 *	.600
	348.6400 IN.	ZHRP	· = 190.8I	080 IN.ZC				ELEVON =	5.000	HACH =	.000
SCALE =	.0300							BETAD #	.000 10.000	DY =	16.000
								DX =	10.005	01 -	10.000
	•	RUN NO	. 743/ 0	RN/L =	3.24 GRA	DIENT INTER	VAL = .C	12.00			
		not no	. 143, 0			<u>-</u>					
ALPHAO	D2	HACH	ĐΧ	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
19.456	-2.278	.60010	10.85340	7.94940	.03880	.00000	5.86640	5.03030	.42400	.09130	.05470
10.441	.974	.59990	10.63189	7.95910	.03240	.00000	5.86880	5.01890	.42470	.09150	.05510
10.437	5.632	.60080	10.31420	7.95140	.02670	.00008	5.86360	5.00500	.43400	.09210	.03310
10.440	12.947	.60840	9.81390	7.96130	.02090	.00000	5.65810	5.00010	.44920	.09240	00210
10.454	26.272	.59990	0.75740	7.96870	.00920	.00000	5.84940	4.99630	.47310	.89280	04410
10.462	43.215	.59990	7.72040	7.97210	.00210	.00000	5.84560	5.00410	.46980	.09310	05520 0594 <b>0</b>
10.464	46.952	.68080	7.46360	7.97530	00040	.00000	5.84240	5.00430	.49230	.09340	03540
	GRADIENT	.00002	06918	.00049	00122	.00000	00112	00298	.60286	.00013	40176
		RUN NO	). 746/ 0	RN/L =	3.23 GRA	DIENT INTER	RVAL = .	00/ 12.00			
	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
ALPHAO	.091	.60070	9.56470	8.04510	.01920	.00000	5.89040	5.01690	. 34730	.07990	.19920
14.699	3.398	.60090	9.33840	8.04540	.01660	.00000	5.88440	5.01860	.35270	.08160	.18670
14.696	8.089	.59980	9.01750	8.04550	.01310	.00000	5.87640	5.01900	.37020	.08500	.13950
14.677	15.482	.60080	B.51410	8.04890		.00000	5.86910	5.00690	.39540	.08800	.07790
14.677	30.336	.59920	7,49140	8.06690		.00000	5.85560	5.00270	.43200	.09030	.00850
14.674	30,330 45,437	.59990	6.44350	8.08710		.08080	5.84830	4.99500	.45800	.09170	~.02520
14.676	49.437 69.598	.59920	5.39480	0.09960		.00000	5.83970	5.00380	.47500	.09270	04480
14.674	00.355	01000	- 00077	00005		.00000	00148	.00026	.00292	.00064	00763

-.00076

.00005

.00000

PAGE 33

10.000

-.09210

-.10180

-.10840

-.80631

.13630

.14030

.14280

.00038

RUN NO. 778/ 0

-6.19610

-8.28580

-.13540

.60050 -10.35530

.60030

.60060

.00005

14.801

14.812

14.809

30,085

45.241

69.151

GRADIENT

CA28 747/1 01 51

CARRIER DATA

DX

.007 12.00

4.98280

4.99950

4.99330

-.00286

9,66988

9.66320

9.65980

-.00182

(RGN0741 ( 01 DEC 75 )

acco	RENCE	D 4 1	

#### XHRP = 1339.9800 IN.XC SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. YHRP = .080B IN.YC ZMRP = 190.8000 IN.ZC BREF = 2348.0400 IN. SCALE = .0300

RN/L =

8.86980

8.97710

8.90350

-.00260

3.27

ALPHAC =	8.000	BETAC	•	5.000
ELV-IB =	.000	ELV-08		3.000
ELEVON =	5.000	MACH	=	.600
BETAO -	-000	PH1	•	.000

DY

.000

.76850

.79150

.80730

.00366

PARAHETRIC DATA

		***************************************									
ALPHAD 10.386 10.382 10.404 10.446 10.484 10.507	DZ -2.569 .494 5.444 12.879 27.855 42.765 46.810	MACH .60000 .59990 .59920 .60080 .60070 .60090	DX 67920 -1.09610 -1.77530 -2.79560 -4.69200 -6.91030 -7.47130	DY 8.78930 8.79940 8.79830 8.78530 8.77840 8.78230 8.76220	8ETAO .04720 .03450 .02930 .02760 .01750 .01070	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 9.67710 9.67430 9.67330 9.67050 9.66630 9.66900 9.66000	EETA 5.05610 5.04960 5.02910 5.02480 5.03890 5.03990 5.64000	CL .77990 .78290 .78580 .79560 .81420 .82280 .83220	CD .14230 .14130 .14050 .14050 .14280 .1480 .14530	CLM 09408 09350 10020 11010 11980 11940 12240
10.5.5	GRADIENT	80014	13720	00063	00105	.00800	00020	88414	.00079	00016	00135
	5,0,2,2,0	RUN N	o. 785/ 0	RN/L =	3.20 GRA	DIENT INTER	IVAL = .	00/ 12.00			
ALFHAO 14.769 14.763 14.765 14.776	DZ .421 3.277 7.611 14.897	HACH .60000 .60030 .60040 .59960	0X -2.15370 -2.53970 -3.12710 -4.11930	0Y 8.99200 8.69769 8.69370 8.65650	BETAO .01960 .01780 .01750 .01660	9H1 .0000 .0000 .0000	ALPHAN 9.69950 9.69440 9.68640 9.67900	BETA 5.01660 5.00270 4.99670 5.00080	CL .69250 .70200 .71870 .73950	CD .12690 .12780 .12950 .13150	CLH .01290 .00180 03170 06750

.01090

.00540

-.00530

-.00027

GRADIENT INTERVAL =

.00000

.08080

.00000

TABULATED SOURCE DATA - CARD DATE OF DEC 75

(RONATE) | 1 01 DEC 75 1

PAGE 35

		CA20	747/1	01 St	C	ARRIER DATA	·	(RGN07)	51 ( 01 DE	C 75 )
REFERENC	E DATA						ı	ARAHETRIC	ATAO	
· · · · · · · · · · · · · · · · · · ·	FT. XHRP YHRP	<b>= .00</b>	00 IN.YC				ALPHAC = ELY-IB = ELEVON = BETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-03 = HACH = PHI = OY =	5.000 3.000 .600 .000
•	RUN NO.	7447 0	RN/L =	3.24 GRA	DIENT INTER	VAL = .	00/ 12.00			
OZ -4.295 -1.016 3.234 10.653 26.076 40.921 47.391 GRADIENT	HACH .59980 .60000 .60090 .60020 .59950 .60020 .59990	DX 9.60240 9.14600 8.56250 7.54070 5.40030 3.33920 2.44260 13773	0Y 7.92050 7.93820 7.93260 7.92720 7.92820 7.93180 7.93360 00073	BETAO .05400 .03580 .03580 .02590 .01500 .00930 .00400 00057	PHI .09000 .09000 .00000 .00000 .00000 .00000	ALPHAH 9.71810 9.72130 9.71679 9.71900 9.71390 9.70570 9.70550 .00004	8ETA 5.02020 5.02130 5.02420 5.01130 5.00840 5.00110 5.00900 00174	CL .79770 .79710 .79920 .80560 .82110 .83800 .83840	CO .14730 .14590 .14510 .14470 .14600 .14740 .14820	CLH 10940 10120 10310 11040 12050 11960 12130 00098
OZ -1.882 1.393 5.736 12.961 28.063 42.937 57.817	HACH .60010 .59950 .60040 .60040 .59950 .60070	DX 8.09210 7.64570 7.05370 6.06200 3.97810 1.91620 15670	DY 8.06760 8.06130 8.04400 8.03060 8.02230 8.02770 8.04120	BETAO .01710 .01580 .01390 .01140 .00320 00220	PH1 .00000 .00000 .00000 .00000 .00000	ALPHAH 9.74680 9.74410 9.74810 9.73450 9.72720 9.71930 9.71390	8ETA 5.02630 5.01250 5.01420 5.00960 5.00640 4.99980 5.00110	CL .72630 .72850 .74030 .75640 .80560 .82050	CD .13180 .13180 .13300 .13430 .13730 .14100 .14320 .00028	CLH .02370 .01130 01840 05020 08660 09950 10580 00584
	500.0000 SQ. 327.7800 IN. 348.0400 IN0300  OZ -4.295 -1.016 3.234 10.653 26.076 40.921 47.391 GRADIENT  OZ -1.882 1.393 5.736 12.961 28.063 42.937	327.7800 IN. YHRP 348.0400 IN. ZHRP .0300  RUN NO.  0Z HACH -4.295 .59980 -1.016 .60000 3 234 .60020 26.076 .59950 40.921 .60020 47.391 .59990 GRADIENT00009  RUN NO.  0Z HACH -1.882 .60010 1.393 .59950 5.736 .60040 12.961 .60040 28.063 .59950 42.937 .60070 57.817 .59950	REFERENCE DATA  500.0800 SQ.FT. XHRP = 1339.90 327.7800 IN. YHRP = .00 348.0400 IN. ZHRP = 190.80  RUN NO. 7447 0  OZ HACH DX -4.295 .59980 9.60240 -1.016 .60000 9.14600 3.234 .60030 8.56250 10.653 .60020 7.54070 26.076 .59950 5.40030 40.921 .60020 3.33920 47.331 .59990 2.44250 GRADIENT0000913773  RUN NO. 7457 0  OZ HACH DX -1.882 .60010 8.09210 1.393 .59950 7.64570 5.736 .60040 7.05370 12.961 .60040 6.66200 29.063 .59950 3.97810 42.937 .60070 1.91620 57.617 .5995015670	REFERENCE DATA  500.0800 SQ.FT. XHRP = 1339.9000 IN.XC 327.7800 IN. YHRP = .0000 IN.YC 348.0400 IN. ZHRP = 190.8000 IN.ZC  RUN NO. 7447 0 RN/L =  OZ MACH DX DY -4.295 .59960 9.60240 7.92050 -1.016 .60000 9.14600 7.93220 3.234 .60090 8.56250 7.93260 10.653 .60020 7.54070 7.92720 26.076 .59950 5.40030 7.92620 40.921 .60020 3.33920 7.93180 47.391 .59990 2.44250 7.93360 GRADIENT000091377300073  RUN NO. 745/ 0 RN/L =  OZ MACH DX DY -1.882 .60010 8.09210 8.06760 1.393 .59950 7.64570 8.06130 5.736 .60040 7.05370 8.04400 12.961 .60040 6.66200 9.03660 28.063 .59950 3.97810 8.02230 42.937 .60070 1.91620 6.02770 57.817 .5995015670 8.04120	REFERENCE DATA  500.0000 SQ.FT. XHRP = 1339.9000 IN.XC 327.7800 IN. YHRP = .0000 IN.YC 348.0400 IN. ZHRP = 190.8000 IN.ZC .0300  RUN NO. 7447 0 RN/L = 3.24 GRA  OZ HACH DX DY BETAO -4.295 .59980 9.60240 7.92050 .05400 -1.016 .60000 9.14600 7.93020 .03580 3.234 .60090 8.56250 7.93260 .03000 10.653 .60020 7.54070 7.92720 .02590 26.076 .59950 5.40030 7.92620 .01500 40.921 .60020 3.33920 7.93180 .00830 47.331 .59990 2.44250 7.93360 .00400 GRADIENT00009137730007300057  RUN NO. 745/ 0 RN/L = 3.23 GR/  OZ HACH DX DY BETAO -1.882 .60010 8.09210 8.06760 .01710 1.393 .59950 7.64670 8.06130 .01590 57.736 .60040 7.05370 8.04400 .01390 12.961 .60040 6.06200 9.03060 .01140 28.063 .59950 3.97810 8.02230 .00320 42.937 .60070 1.91620 8.0277000220 57.817 .5995015670 8.0412000950	REFERENCE DATA  500.0000 SQ.FT. XHRP = 1339.9000 IN.XC 327.7900 IN. YHRP = .0000 IN.YC 348.0400 IN. ZHRP = 190.8000 IN.ZC .0300  RUN NO. 7447 0 RN/L = 3.24 GRADIENT INTER  OZ HACH DX DY BETAO PHI -1.016 .60000 9.14600 7.93020 .03580 .00000 3.234 .60030 8.56250 7.93260 .03500 .00000 10.653 .60020 7.54070 7.92720 .02590 .00000 26.076 .59950 5.40030 7.92820 .01500 .00000 40.921 .60020 3.33920 7.93180 .00833 .00000 47.391 .59990 2.44250 7.93350 .00400 .00000 47.391 .59990 2.44250 7.93350 .00400 .00000 GRADIENT00009137730007300057 .00000  RUN NO. 745/ 0 RN/L = 3.23 GRADIENT INTER  OZ HACH DX DY BETAO PH1 -1.882 .60010 8.09210 8.06750 .01710 .00000 1.393 .59950 7.64570 8.06130 .01590 .00000 57.736 .60040 6.06200 8.03660 .01140 .00000 12.961 .60040 6.06200 8.03660 .01140 .00000 12.961 .60040 6.06200 8.03660 .01140 .00000 12.977 .60070 1.91620 8.0277000220 .00000	REFERENCE DATA  500.0000 SQ.FT. XHRP = 1339.9000 IN.XC 327.7800 IN. YHRP = .0000 IN.YC 348.0400 IN. ZHRP = 190.8000 IN.ZC .0300  RUN NO. 7447 O RN/L = 3.24 GRADIENT INTERVAL =  OZ HACH DX DY BETAO PHI ALPHAH -4.295 .59960 9.60240 7.92050 .05400 .00000 9.71810 -1.016 .60000 9.146000 7.93220 .03580 .00000 9.71870 3 234 .60090 8.56250 7.93260 .03000 .00000 9.71679 10.653 .60020 7.54070 7.92720 .02590 .00000 9.71900 26.076 .59950 5.40030 7.92820 .01500 .00000 9.71900 26.076 .59950 5.40030 7.92820 .01500 .00000 9.71990 40.921 .60020 3.33920 7.93180 .00030 .00000 9.70590 47.391 .59990 2.44250 7.93350 .00400 .00000 9.70550 GRADIENT00009137730007300057 .00000 .00004  RUN NO. 7457 O RN/L = 3.23 GRADIENT INTERVAL =  OZ HACH DX DY BETAO PHI ALPHAH -1.882 .60010 8.09210 8.06750 .01710 .00000 9.74680 1.393 .59950 7.64570 8.06130 .01580 .00000 9.74680 5.736 .60040 7.05370 8.04400 .01390 .00000 9.74910 5.736 .60040 7.05370 8.04400 .01390 .00000 9.74910 5.736 .60040 6.06200 8.03050 .01140 .00000 9.73550 28.063 .59950 3.97810 6.022230 .00320 .00000 9.72720 42.937 .60070 1.91620 6.0277000220 .00000 9.71930 57.617 .5995015670 8.0412000950 .00000 9.71930	REFERENCE DATA  500.0000 SQ.FT. XHRP = 1339.9000 IN.XC	REFERENCE DATA  REFERENCE DATA  PARAMETRIC  PARAMETRIC  PARAMETRIC  REFERENCE DATA  PARAMETRIC  PARAMETA  ALPHAH PARAMETRIC  PARAMETRIC  PARAMETRIC  PARAMETRIC  PARAM	REFERENCE DATA  PARAMETRIC DATA  PARAMETRIC DATA  PARAMETRIC DATA  PARAMETRIC DATA  PARAMETRIC DATA  PARAMETRIC DATA  ALPHAC = 8.000 BCTAC = ELV-IB = .000 HACH = .000 BCTAC = ELV-IB = .000 HACH = .000 BCTAC = .0000 BCTAC = .00000 BCTAC = .000000 BCTAC = .00000 BCTAC = .000000 BCTAC = .000000 BCTAC = .000000 BCTAC = .000000 BCTAC = .00000 BCTAC = .000000 BCTAC = .0000

GRADIENT

-.01290

-.03950

-.00369

.09320

.09360

.00058

CA20 747/1 01 S1

CARRIER DATA

(RGN076) | 01 DEC 75 |

PARAMETRIC DATA

.44360

.46330

.00322

-5.64800

.00152

5.81480 -5.03960

5,81970

-.00084

ìΕ	c	E	ū	¢	ĸ	r	F	n	ì	7	1

31.718

46.644

61.610

GRADIENT

14.734

14.739

14.739

.60020

.59920

.60030

.00004

-3,44230

-4.47430

-.06875

SREF = LREF = BREF = SCALE =	5500.6250 327.7600 2348.0400 .0300	IN.	XMRP YMRP ZMRP	= .0	3000 IN.XC 3000 IN.YC 3000 IN.ZC			ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.000 .000 5.000 .000		-5.000 3.000 .500 7.500
			RUN NO.	700/ 0	RN/L =	3.24	GRADIENT INTERVAL -	.00/ 12.00			

i7	MACH	DX	DY	BETAG	PHI	ALPHAH	BETA	CL	ÇD.	CLH
_		.8325D	1.15460	.36450	7.50000	5.83850	-5.05480	.39350	.08930	.03760
		155	1.18340	.35490	7.50000	5.83680	-5.04370	.39790	.08980	.04000
	-			.34590	7.50000	5.83320	-5.04788	.40690	.09080	.03010
-				.33660	7.50000	5.82810	-5.04000	.42690	.09250	.00240
				.32710	7.50000	5.81510	-5.04710	.45610	.09400	02630
		*		.32620	7.50000	5.80850	-5.04020	.47470	.09430	03940
					7.50000	5.80580	-5.04010	.47900	.09440	04488
DIENT	.00019	06765	.00749	00212	.00800	00084	00095	.00209	.00023	+.00230
	สบท พ	). 699/ O	RN/L =	3.25 GRA	DIENT INTER	RVALI	00/ 12.60			
77	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CŁ	CD	CLH
		38080	1.14030	.90370	7.50000	5.85610	-5.05330	.31740	.08050	.13609
		55980	1.15770	.69700	7.50000	5.86300	-5.04270	.32590	.08280	.12770
		87360	1.17889	.89010	7.58000	5.85990	-5.04130	.34050	.08480	.10970
		_	1.20160	.88280	7.50000	5.84940	-5.04330	.36960	.08890	.06820
31.71B			1.22950	.87480	7.50000	5.83020	-5.04070	.41500	.09200	.01480
	0Z 1.908 4.533 9.069	2.021 .60000 6.318 .60000 6.318 .60080 3.726 .60020 88.683 .60070 17.275 .59920 101ENT .00019 RUN NO 02 HACH 1.908 .59900 4.533 .59970 9.069 .59940 16.707 .59980	2.021 .60000 .61190 6.318 .60000 .61190 6.318 .60000 .32120 3.726 .60020 -1.8460 88.683 .60070 -1.20160 33.777 .60040 -2.23760 17.275 .59920 -2.47710 101ENT .0001906765  RUN NO. 6597 0 11.908 .59500 -38000 4.533 .5997055980 9.069 .5994007380 16.707 .59980 -1.39380	-1.277 .59980 .63250 1.15460 2.021 .60000 .61190 1.10340 6.318 .60080 .32120 1.21560 3.726 .6002018460 1.24350 88.683 .60070 -1.20160 1.27850 13.777 .60040 -2.23760 1.20820 17.275 .59920 -2.47710 1.29290 17.275 .60040 -0.6765 .00749  RUN NO. 6997 0 RN/L =  02 HACH DX DY 1.908 .5998038080 1.14030 4.533 .5997055980 1.15770 9.069 .5994087360 1.17880 16.707 .59980 -1.39390 1.20160	-1.277	1.277	1.277	1.277	1.277	1.277

7.50000

7.50000

.00000

.87190

.66560

-.00185

1.23390

1.24610

ATE OI DEC	75	TABULA	TED SOURCE	DATA - CA	20						
			CA20	747/1	01 51	CA	ARRIER DATA	,	(RGN077	73 C Q1 DE	275 }
-	REFERENCE DA	ATA						F	PARAMETRIC		
EF = 3	00.0009 SQ.FT. 27.7800 IN. 48.0400 IN. .0300	XHRP YHRP ZHRP	.0	000 IN.XC 000 IN.YC 000 IN.ZC		,		ALPHAC = ELEYON = BETAO = DX =	.000 5.000 .000	BETAC = ELV-OB = HACH = PHI =	-5.000 3.000 .600 7.500
ALPHAG 10.372 10.367 10.367 10.389 10.411	DZ #V -2.105 .6 1.060 .5 5.691 .6 13.253 .6	RUN NO. ACH 50020 59990 60070 60030 60010 59980	679/ 0  DX 10.86710 10.55570 10.34240 9.82060 8.78850 7.75890 7.39550	BN/L =  DY 2.01610 2.02110 2.05170 2.09120 2.11400 2.12730 2.13120	BETAO .34580 .34169 .33240 .32670 .31800		VAL = .6  ALPHAH 5.85010 5.84920 5.84950 5.84450 5.83790 5.82940 5.82760	90/ 12.00 9ETA -5.00500 -4.98500 -4.98100 -4.98750 -4.98730 -4.98850 -4.98840	CL .42510 .42090 .42090 .43900 .46310 .46040 .48520	CO .08930 .08900 .09000 .09200 .09350 .09420	CLH .012 .028 .027 .003 035 044 +.000

RN/L =

1.96400

1.98550

2.01180

2.03990

2.05970

2.06910

2.08050

.00835

DY

RUN NO. 6897 0

ĐΧ

9.54560

9.31660

9.03360

8.51080

7.48720

6.45690

5.39730

-.06800

MACH

.60040

.60010

.60050

.60090

.59990

.59930

.59910

.00002

DΖ

.874

4.232

8.405

16.057

30.959

45.936

61.178

GRADIENT

ALPHAD

14.684

14.667

14.662

14.663

14.669

14.672

14.683

3.28

**BETAO** 

.09390

.89800

.68290

.B7710

.87070

.86860

.86480

-.80145

GRADIENT INTERVAL =

PHI

7.58800

7.50000

7.50000

7.50000

7.50000

7.50000

7.50000

.00000

.00/ 12.00

ALPHAH

5.87640

5.87720

5.87448

5.86600

5.85230

5.84070

5.83590

-.00028

BETA

-4.96580

-4.95930

-4.98210

-4.99860

-4.98150

-4.98100

-4.98820

-.00220

PAGE 37

CLH

.15270

.14240

.13080

.08080

.02460

-.00690

-.02580

-.00290

CĐ

.07870

.08060

.08290

.08730

.09080

.09270

.09300

.00056

ÇŁ

.35460

.35780

.36510

.38790

.42430

.44960

.46880

14.713

14.722

46,466

61.470

GRADIENT

DATE OI DEC 75 (RGN078) ( 01 DEC 75 )

-5.04710

.00339

9.63820

-.00072

7.50000

7.50000

-.00000

.87328

.86640

-.00321

1.26140

1.28150

.00942

-8.39580

-.13496

.60040 -10.46660

.60000

-,00000

.81410

.00287

.14120

.00050

-.09420

			CA2B	747/1	01 51	C	ARIER DATA		(RGN07)	B) ( OL DE	(C 75 )
		0174							PARAHETRIC	DATA	
LREF =	REFERENCE 500.0000 SQ.F1 327.7800 IN. 348.0400 IN. .0300		× .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = OX =	8.000 .000 5.000 .000	BETAC = ELV-08 = MACH = PHI = DY =	-5.000 3.000 .600 7.500
		HUN NO.	701/ 0	RN/L =	3.22 GR	ADIENT INTER	VAL.= •1	12.00			
ALPHAO 10.301 10.323 10.359 10.398 10.452 10.485 10.490	0Z -1.522 1.720 6.033 15.289 28.550 43.635 47.135 GRADIENT	.60060 .59980 .60080 .59990 .60050	DX 83310 -1.27100 -1.66180 -3.12410 -4.95350 -7.04370 -7.52840 13697	DY 1.08330 1.13320 1.18510 1.24460 1.29230 1.31350 1.31640 .01203	BETAO .39300 .37340 .35540 .33730 .32740 .32720 .32660 00394	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 0.00000	ALPHAH 9.69190 9.69140 9.69140 9.69470 9.68130 9.67630 9.67520 .00000	BETA -5.04570 -5.04160 -5.04760 -5.03900 -5.04800 -5.04730 -5.0394000139	CL .77830 .77890 .78500 .79740 .81410 .82840 .83150	CD .14090 .14000 .14040 .14160 .14310 .14380 .14510 .00009	CLH 09880 09190 09510 09780 10030 10030 10090
		RUN NO.	6987 0	RN/L =	3.31 GF	MOTENT INIER	WAL	00, 12,00			
ALPHAO 14.639 14.646 14.662 14.679	02 1.551 4.440 9.007 16.752	HACH .60080 .59940 .60060 .60000	px -2.26150 -2.65160 -3.26760 -4.31669 -6.33690	PY 1.07140 1.10830 1.14300 1.19170 1.23600	.88790	PHI 7.50000 7.50000 7.50000 7.50000	ALPHAN 9.67920 9.67710 9.67380 9.66390 9.64870	BETA -5.05090 -5.04860 -5.02670 -5.05080 -5.03090	CL .69300 .69840 .71400 .73550 .77100	CD .12540 .12640 .12910 .13190 .13580	CLN 80290 60778 02940 05140 07650 08630
14.701	31.550	.00000	0.20500	1 26140		7.50000	9.64458	-5.04770	.79610	.13910	00030

PAGE 39 TABULATED SOURCE DATA - CA2D DATE OI DEC 75 (RCN079) ( 81 DEC 75 ) CARRIER DATA CA20 747/1 01 SI PARAMETRIC DATA REFERENCE DATA -5.000 ALPHAC \* 8.000 BETAC = XHRP 1339.9000 IN.XC 5500.0000 SQ.FT. -SREF 3,000 ELV-IB = ELV-08 = .000 .0000 IN.YC 327.7800 IN. YHYP = .600 5.000 HACH ELEVON -190.8000 IN.ZC ZHRP = BREF = 2348.0400 IN. BETAO = .000 PHI 7.500 .0300 SCALE = .000 10.000 DY DX .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.27 RUN NO. 682/ 0 CLM æ CL BETAO PHI **ALPHAH** BETA ĐΧ Đ٧ HACH **ALPHAO** DZ -.130564.99620 .80:70 .14290 7.50000 9.72010 .37820 9.44330 1.93780 .59980 10.182 -3.146 -.10830 .79510 .14160 9.72230 -4.99230 1.97280 .36380 7.50000 9.64330 -. 191 .80050 10.201 -.09910 .79440 .14110 7.50000 9.72000 -4.98760 .34460 2.02160 .60020 0.42140 10.223 4.382 .80210 .14220 -.10240 -4.97890 9.71950 7.50000 7.38160 2.06830 .32870 .60030 10.263 11.935 -.10060 .14380 -4.99590 .01680 2.12690 .31790 7.50000 9.71460 5.31290 .59930 10.337 26.849 -.09790 -4.98020 .83070 .14530 .31730 7.50000 9.70990 3.28828 2.14560 .60020 10.377 42.008 .14570 -.09920 .03570 9.71490 -4.98770 7.50000 2.15750 .31550 2.23740 48.909 .60000 10.386 -.00044 .00115 .00102 .00015 .00000 -.00007 .00614 -.00211 .00081 -.13767 GRADIENT GRADIENT INTERVAL = .00/ 12.00 RN/L \* 3.27 RUN NO. 681/ 0 CL CD CL.H PHI ALPHAH BETA BETAG BX OY HACH DZ ALPHAO .12950 -.00140 9.74650 -4.97150 .72950 .91980 7.58000 1.87070 7.97090 .60080 14.540 -.899 .00900 .12930 9.74960 -4.96080 .72670 .90820 7.50000 1.90420 .60070 7.62670 14.539 1.681 .00140 -4.94870 .73140 .13040 7.50000 9.74300 1.94450 .89580 .59980 7.01630 6.191 14.550 .13340 -.02720 .74790 7.50000 9.73710 -4.98970 .88320 5.99450 2.00570 .68939 14.577 13.669 -.05860 -4.93530 .77730 .13740 9.72640 7.50000 2.05670 .86940 .60088 3.90510 28.859 14.626 -.07440 .79930 .14030 -4.98830 9.72090 2,08630 .86880 7.50080 1.83050 .60030 43.897 14.654 -.08490 .14220 7.50000 9.71490 -4.98000 .81620 .06650 2.09830 -.23590 58,633 .59980 14.668 .00024 -.00169 .00268 .00104 -.00146 -.00275 -.00800 -. t 3535 .00894

-.08020

GRADIENT

-.00399

.00040

CA20 747/1 01 51

CARRIER DATA

.00301

-.00134

(RGN080) ( 81 DEC 75 )

PARAMETRIC DATA

.00364

DECEDENCE	

61.359

GRADIENT

14.693

LREF =	5500.0000 SQ.I 327.7600 IN. 2348.0460 IN.	YI <del>S</del> RP =		IN.YC	ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	PETAC == ELV-OB == MACH == PH1 == DY ==	3.000 .600 7.500
--------	---	----------------------	--	-------	---	--------------------------------	---	------------------------

		RUN NO	. 791/ 0	RN/L =	3.34 GRA	DIENT INTER	VAL0	12.00			
				nu.	DETAO	PHI	ALPHAH	BETA	CL	CD	CLH
CAHPLIA	G2	HACH	DX	ĐΥ				-4.98690	.40280	.09290	04320
10.543	.277	.59960	.69350	11.14360	.36720	7.50000	5.84270			.09310	03370
10.537	3.154	.59930	.49810	11.15020	.36560	7.50000	5.84120	-4.97990	.46770		
-	7.602	00010	.19640	11.16160	.36970	7.50000	5.83540	-4.97350	.41830	.09400	03320
10.543		.59920	30580	11.18100	.35240	7.50000	5.83280	<del>-4</del> .98370	.43300	.09490	03280
10.546	[4.948			11.21710	.33670	7.50000	5,82128	-4.98510	.45950	.09550	03840
10.563	36.458	.60020	-1.36340		.33050	7,50000	5.81720	-4.98950	.47620	.09540	04860
10.569	45.266	.59930	-2.39270	11.23800			5.81590	-4.99680	.48000	.09510	04780
10.573	47.765	.60090	-2.55600	11.24380	.32880	7.50000				.00015	.00126
	GRADIENT	.00009	06782	.00247	00091	.08000	00102	.00178	.00214	.00012	140120
		RUN NO	), 792/ 0	RN/L =	3.33 GR/	DIENT INTER	IVALI	12.00			
			ΩX	OY .	BETAO	PHI	ALPHAW	BETA	CL	CO	CLH
ALPHAO	OZ	MACH				7.50000	5.87000	-4.98910	.32900	.08480	.06690
14.593	2.085	.60000	37990	11.08210	.90289			-4.98190	.33490	.08520	.06240
14.684	4.700	.60010	56200	11.03160	.98090	7.50000	5.87020			.08750	.04020
14.679	9.002	.80869	86020	11.10680	.89490	7.50000	5.26130	<del>-4</del> .96840	.35360		
-		.60070	-1.37540	11.13310	.88490	7.50000	5.65650	-4.99530	.37500	.09030	.03330
14.683	16.383			11.16780	.87000	7.50000	5.83990	-4.99270	.41570	.09380	00370
14.691	31.443	.59920	-2.41210		.86380	7.50000	5.82940	-4.99250	.44330	.09450	02850
14.694	46.592	.59940	-3.45170	11.18970			5.82430	-4.98120	46300	.C 450	03700
	04 200	ERREA	_, , ,7000	11 20770	. 85570	7.50000	5.62450	-4.50150			

.65570

-.00117

11.20770

.00357

-4.47680

-.06944

.59950

.00009



PAGE 41

DATE OF DEC 75 TABULATED SOURCE DATA - CA20										PAU	Z. 71
	-		CA20	747/1	OI SI	c	ARRIER DATA		(RGN0B)	101 DE	C 75 1
	REFERENC	È DATA			PARAMETRIC DATA						
LREF =	500.0000 SQ. 327.7800 IN. 348.0400 IN. .0300	YHRP	0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELEVON = BETAO = OX =	4.000 .000 5.000 .000	BETAC * ELV-08 * HACH = PHI =	-5.000 3.000 .600 7.500 10.000
		RUN NO	. 752/ 0	RN/L =	3.25 GR	ADIENT INTER	YAL = .C	10/ 12.00			
ALPHAO 10.346 10.345 10.354 10.381 10.403 10.412 10.415	DZ -1.602 1.482 5.908 13.318 28.645 43.525 47.221 GRADIENT	MACH .60090 .60060 .60020 .60050 .60020 .60020 00009	0x 10.84680 10.63530 10.33590 9.81780 8.76420 7.73690 7.48460 06936	DY 11.99480 12.00090 12.01730 12.03110 12.06720 12.08630 12.08790 .00373	BETAO .37630 .37550 .37080 .36550 .35160 .34460 .34240 00106	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.5000000000	ALPHAH 5.85440 5.85620 5.85220 5.84870 5.84180 5.83600 5.83250 00090	BETA -4.97960 -4.98010 -4.98920 -4.98360 -4.99350 -4.98240 00206	CL . 42790 . 42970 . 43500 . 44570 . 46590 . 48130 . 48450 . 00120	CD .09080 .09130 .09240 .09370 .09470 .09460 .00025	CLH 04030 03590 03470 03540 05180 05000 .00027
ALPHAO 14.608 14.598 14.593 14.598 14.613 14.617	02 240 2.722 7.480 14.602 29.687 44.725 59.760 GRADIENT	MACH .60090 .60030 .60030 .60090 .60000 .59950 .60020	DX 9.64110 9.43840 9.11160 8.62320 7.57480 6.53810 5.50180 06968	DY 11.90700 11.92140 11.93390 12.95990 12.0060 12.02150 12.03780 .00263	8ETAO .92390 .92500 .92030 .91230 .89630 .89840 .89140	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 0.00000	ALPHAN 5.87640 5.87630 5.87630 5.86660 5.85700 5.84550 5.83640 00050	BETA -4.97970 -4.98890 -4.98370 -4.99540 -5.00190 -4.99410 -4.99030	CL .36840 .36940 .37660 .39180 .42580 .44970 .46770	CO .08220 .08340 .08510 .08820 .09230 .09370 .09370	CLH .06390 .06830 .05750 .04460 .00130 01620 03490 00227

.00019

GRADIENT

-.13623

.00057

-.00055

-.00000

-.00085

.00159

.00273

.00039

-.00003

CA20 747/1 01 S1

CARRIER DATA

(RGN082) ! 01 DEC 75 )

<b>CCCCDENCE</b>	

### PARAMETRIC DATA

SREF = 5	500.0000 SQ	i.ft. XHRE	= 1339.9	9000 IN.XC				ALPHAC =	B.000	BETAC =	-5.000
LREF =	327.7800 IN	I. YHRE		0000 IN.YC				ELV-IB =	.000	ELV-08 =	3.000
BREF = 8	2348.0400 IN	I. ZHRE	= 190.1	8000 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAD =	.000	PHI -	7,500
-	.0250					•		DX -	.000	DY *	10.000
										•	
		RUN NO	. 798/ 0	RN/L =	3.28 GR	ADIENT INTER	IVAL = .	00/ 12.60			
ALPHAO	02	HACH	рх	DY	OATEB	PHI	ALPHAH	BETA	CL	CD	CLH
10.341	278	.60070	-1.00870	11.14970	.35700	7.50000	9.65950	-4.98570	.77570	. 14180	14330
10.486	.652	.59920	-1.21140	11.14280	.37710	7.50000	9.65978	-4.98610	.77508	. 14160	14330
10.365	3.053	.59980	-1.45750	11.15070	.36160	7.50000	9.65670	-4.97910	.77780	.14120	13370
10.389	7.538	,59900	-2.06910	11.16310	.36060	7.50000	9.65760	-4.98830	.78230	.14130	12390
10.427	14.849	.60020	-3.06390	11.18630	.35350	7.50000	9.65440	-4.99010	.79270	. 14200	11220
10.498	30.104	.59970	-5.16390	11.23050	.34070	7.58000	9.64830	-4.98980	.B1040	. 14250	10350
10.519	44.754	.60050	<b>-7.</b> 17650	11.25610	.33340	7.50000	9.64570	-4.98770	.82440	. 14350	10339
10.519	47.323	.60030	-7.52920	11.25990	.33110	7,50000	9.64270	-4.98730	.02630	. 14360	10260
	GRADIENT	00005	12590	.00292	00212	.00000	00024	00054	.00105	00804	.00274
		RUN NO	. 797/ 0	RN/L =	3.29 GR	ADIENT INTER	IVAL =	00/ 12.00			
ALPHAO	DZ	HACH	Ox	DY	BETAD	PH!	ALPHAR	BETA	CL	CD	CLH
14.589	1.523	.59340	-2.24660	11.69770	.90490	7.50000	9.69240	-4.98790	.68960	. 12840	06030
14.598	4.729	.60080	-2.60170	11.10310	.90410	7.50000	9.68750	-4.98930	.69800	. 12930	05570
14.608	8.739	.60080	-3.22950	11.10210	.90100	7.50800	9.68610	-4.97690	.76938	. 13120	06010
14.637	16.314	.59980	-4.26990	11.12770	.89130	7.50000	9.67900	-4.99560	.73040	.13350	07030
14.658	31.043	.59930	-6.28400	11.17200	.87570	7.50800	9.66570	-4.99090	.76300	.13700	07670
14.697	46.253	.60030	-8.38190	11.20280	.66730	7.50000	9.65940	-4.98970	.78860	. 13890	08490
14.695	61.354	.60050	-10.46720	11.22980	.85990	7.50000	9.64990	-4.98740	.80590	. 14890	09370

<del>\(\frac{1}{2}\)</del>

•

TABULATED SOURCE DATA - CA20 DATE OI DEC 75

.60060

.00002

58.528

GRADIENT

14.608

-.22260

-.13708

.00068

-.00842

( 01 DEC 75 ) (RGN0831 CARRIER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA -5.008 ALPHAC = 8.000 BETAC 1339.8000 IN.XC XHPP = 5500.0000 SQ.FT. 3.000 .080 ELV-08 = ELV-IB . .0000 IN.YC YHRP 327.7800 IN. .600 LREF HACH ELEVON . 5.000 190.8000 IN.ZC ZMRP BREF . 2348.0400 IN. 7.500 .000 PHI BETAD # .0300 10.000 SCALE -DY 10.000 DX .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.25 RUN NO. 753/ 0 CLH CD BETA CL PHI ALPHAH **BETAO** ĐΧ DY HACH DZ -. 15830 ALPHAO .79740 . 14360 -4.97930 7.50000 9.72220 12.02470 .35460 9.58440 .59920 10.157 -4.055 -. 14670 .79680 .14270 9.72250 -4.98720 .36780 7.50008 12.01420 9.17969 .59910 -.13780 -1.07710.183 .14260 -4.98040 .79920 9.72190 .37270 7.50000 0.55730 12.01330 .59910 3.434 -.12110 10.217 .80350 .14330 4.99020 7.50000 9.72090 .36920 12.03380 7.53340 .59950 10.894 -.10810 10.253 .14469 .81790 7.50000 9.71650 -4.99130 .35530 12.07799 .60000 5.40550 26.227 -.10850 10.325 .14550 9.71180 -4.99700 .83040 7.50000 .34890 12.10570 3.36760 .59980 10.359 40.888 .14590 -.10580 -4.98090 .83550 9.71230 7.50000 .34450 12.11250 2.42188 47.654 .69990 .00224 10.380 .00058 .00009 -.08013 -.00131 .00000 -.00047 -.13725 .00275 .00005 GRADIENT GRADIENT INTERVAL = .00/ 12.00 3.25 RN/L = RUN NO. 754/ 0 CD CLH BETA CL. ALPHAH BETAO PHI DΥ ĐΧ MACH ALPHAO ĐΖ .13090 -.05040 .72850 -4.98020 .92370 7,50000 9.74720 11.93300 .59930 8.03390 -.04600 -1.083 14.464 .73030 .13170 -4.99710 9.74688 7.50000 .92590 7.63200 11.94050 1.853 .59970 14.477 .73830 .13310 -.04850 9,74430 -4.98480 .92410 7.50000 11.94340 .59980 7.04468 6.138 14.493 .13570 -.05680 -4.98940 .75290 7.50000 9.73740 .91650 11.96290 .60080 6.00510 14.525 13.721 -.07040 .13920 -4.98480 .77830 9.72870 7.50000 .69970 12.00290 3.90070 28.934 .60020 -.08200 14.575 .14100 .80000 -4.99150 9.72270 .89130 7.50080 1.89220 12.03160 44.022 .59540 14.596 . 14270 -.09208 .81620 9.71910 -4.99680 7.50000 .88300 12.06010

PAGE 43

-.08058

.00033

.00187

.00287

-.08859

CARRIER DATA

(RCHOB4) ( OL DEC 75 )

 	A . T .
 FRENCE	UALLA

SREF	5500.0000	SQ.FT.	XHRP		1339.9000	IN.XC
	327.7800		YHRP	-	.0000	IN.YC
	2348.0400		ZMRP	-	190.8000	IN.ZC
SCALE	.0300					

### PARAMETRIC DATA

ALPHAC		4.000	BETAC	-	.00
ELV-18	-	.080	ELY-08	-	3.00
ELEVON	-	5.000	MACH	-	.600
BETAO	•	.000	PHI	-	7.500
DX	-	.000	DY	=	.00

RUN NO. 75	35/ 0	RN/L =	3.19	GRADIENT	INTERVAL =	.007 12.00
------------	-------	--------	------	----------	------------	------------

ALPHAO 10.477 10.476 10.466 10.472 10.485 10.489 10.490	DZ 781 1.431 6.105 13.569 28.308 43.532 47.201	MACH .59990 .60020 .59930 .60000 .59960 .59950	0x .78190 .62900 .30370 21640 -1.25130 -2.31820 -2.58010	DY .11400 .11610 .12250 .13300 .14690 .15620 .15820 .00137	8ETAO .33540 .33470 .33340 .33140 .32590 .32600 .32490	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	5.9450 5.9450 5.93640 5.92780 5.91880 5.90860 5.90960 00152	00740 00560 00560 00960 00190 00070 00060		.09460 .09540 .0960 .09840 .09980 .10010 .10020	.08150 .05910 .03970 .01100 02530 04080 04430
•	GRADIENT	60019	06981	.00137	00028	00000	00152	erovo.	.60265	.00020	-,00713

### GRADIENT INTERVAL =

ALPHAO 15.435 15.428 15.423 15.412 15.415 15.414 14.600 15.413	0Z 6.448 9.304 12.875 20.640 36.109 59.553 60.670 65.326 GRADIENT	HACH .59970 .59980 .59960 .59920 .60000 .59970 .60080 .59950	DX 69570 89700 -1.14210 -1.67000 -2.72220 -3.71920 -4.54030 -4.73040 07049	DY .16150 .16320 .16420 .17650 .18780 .19180 .20570 .20630	9£TAO .97600 .97380 .97360 .96990 .96590 .96360 .64990 .95590	PHI 7.59000 7.59000 7.59000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAM 5.85270 5.85380 5.85340 5.83730 5.81930 5.80920 5.91280 5.80070 00102	BETA 00920 01440 01150 00340 00920 00090 .00730 00040 00182	CL .29530 .30900 .32580 .36300 .41170 .44170 .47320 .46230 .00480	CD .08230 .08540 .08840 .09340 .09590 .09920 .09920 .09870 .00109	CLH .19480 .17040 .14440 .08110 .02200 00880 03200 02580 00854
--	--	--	---	--	---	---	---	--	--	--	---

CARRIER DATA

( 01 BEC 75 ) (RGN085)

PAGE

# REFERENCE DATA

SREF = 5500.8000 SQ.FT. XMRP = 1339.9000 IN.XC 8F

.000. 3.000 ALPHAC \*

PARAMETRIC DATA

LREF =	327.7800 IN. 327.7800 IN. 2348.0400 IN. .0300	YMRP		0000 IN.YC 0000 IN.ZC				ELV-18 = ELEVON = BETAO = DX =	.000 5.000 .000 10.000	ELV-09 = MACH = PHI = DY =	3.000 .600 7.500 .000
		ON NUR	. 686/ 0	RN/L =	3.25 GR	ADIENT INTER	VAL = .0	12.00			
ALPHAO 10.398 10.383	DZ -1.550 1.373	MACH .59990 .59990	0X 10.83690 10.63990	DY .0891 <b>0</b> .090 <b>7</b> 0	82 TAO .32620 .32610	PHI 7.50000 7.50000	ALPHAN 5.86960 5.86980	8ETA .00820 .08850	CL .40790 .41028	CO .09340 .09460	CLM .0506 <b>0</b> .05620
10.391	5.899 13.274	.59950 .59930	10.33220 9.82720	.09770	.32520 .32480	7.50000 7.50000	5.86370 5.85710	.01110	.41730 .43448 .46258	.09500 .09760 .09910	.04550 .01560 02300
10.407 10.420 10.422	28.273 43.578 48.458	.59950 .60000 .59940	8.79640 7.73890 7.40080	.11890 .13010 .13490	.31960 .31980 .31810	7.50000 7.50000 7.50000	5.84670 5.83970 5.83800	.02078 .01420 .01418 .00057	.48130 .48510 .00157	.03350 .03960 .03960	0393B 04400 00234
	GRADIENT	00009 RUN NO	05799 o. 685/ 0	.00155 RN/L =	00020 3.26 GF	00000 ADIENT INTER	00113 RVAL = .0	12.00	.00137	100001	•
ALPHAO 14.697 14.654 14.678 14.673 14.676 14.684 14.686	DZ 1.100 4.350 8.649 16.181 31.095 46.169 61.197 GRADIENT	MACH .59940 .60060 .60060 .59930 .60060 .59990	DX 9.54250 9.32210 9.02890 8.51060 7.46510 6.44000 5.39690	DY .13260 .13590 .13720 .15310 .17240 .16710 .00059	8ETAO .87920 .87860 .87880 .87710 .87330 .87350 .66570	PH1 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 00000	ALPHAM 5.89530 5.89530 5.8960 5.87810 5.85330 5.85290 5.84650 00106	BETA 00300 00170 .01930 .00470 .00570 .01390 .01430	CL .33420 .33990 .35420 .38410 .42350 .45170 .46890 .00268	CO .08020 .08400 .08780 .09200 .09600 .09770 .09860 .00100	CLH .21610 .19660 .16190 .09540 .03120 00470 02360 00723

CA28 747/1 01 51

CARRIER DATA

(RCN096) ( 01 DEC 75 )

# REFERENCE DATA

### PARAMETRIC DATA

LREF -	5509,0008 ( 327,7800 2348,0400 ,0300	IN. YMRF	· = · .(	8000 IN.XC 9000 IN.YC 8000 IN.ZC				ALPHAC = ELV-18 + ELEVON + BETAO + OX +	8.000 .000 5.000 .000	BETAC = ELV-08 = MACH = PHI = DY =	.000 3.000 .600 7.500
		RUN NO	. 702/ 0	RN/L =	3.21 GR	ADIENT INTER	VAL	12.00			
ALPHAO	ĐΖ	MACH	ΩX	DY	BETAD	PHI	ALPHAH	ATEB	CL	CO	CLH
10.331	-1.338	.59930	64120	.06700	.33600	7.50000	9.69480	00030	.77300	. 14690	09290
10.331	1.740	.60000	-1.25560	.07150	.33130	7.50000	9.69390	00040	.77610	. 14700	08656
10.363	6.289	.60070	-1.87590	,08170	.33280	7.50000	9.68910	00010	.78340	. 14740	69520
10.398	13.805	.60030	-2.90490	.09630	.33230	7.50000	9.68730	.08010	.79490	.14790	08550
10.462	28.633	.60050	-4.95180	.12610	.32950	7.50000	9.68090	.00860	.81330	.14960	08660
10.485	43.486	.68040	-7.00390	. 14140	.33000	7.50000	9.67620	.00159	.82730	. 15180	08590
10.469	47.686	.59950	-7.50170	. 14340	.32810	7.50000	9.67300	.00920	.82980	. 15190	02420
101.02	GRADIENT	.00015	13634	.00224	.00033	.00000	00106	.00807	.00160	.00009	.00018
		RUN NO	. 703/ 0	RN/L =	3.20 GR	ADIENT INTER	VAL = .	.00/ 12.00			
ALPHAO	02	MACH	ΩX	DY	BETAO	PH1	ALPHAH	BETA	CL	CD	CLH
14.513	1.005	.60000	-2.17580	.11080	.66690	7.50000	9.72400	01250	.68720	.13190	.02460
14.522	4.003	.59990	-2.58520	.11270	.66730	7.50000	9.719BD	00330	.69840	.13370	.00850
14.535	8.390	.60090	-3.18350	.12190	.86560	7.50000	9.71600	00140	.71470	.13600	01740
14.550	15.842		-4.20128	.13390	.86250	7.58000	9.70768	00040	.73760	.13850	04210
15.384	35.410		-6.93850	. 15790	.96430	7.58000	9.69510	.00020	.77280	.14290	06560
15.397	50.740		-9.05970	.17100	.96420	7.58000	9.68570	100140	.79670	.14620	07400
15.398	65.244		-11.07430	.19330	.95630	7.50000	9.68350	.00140	.81250	.14850	07500
, = . = . <del></del>	GRADIENT		13645	.00157	00019	00000	00107	.00142	.60372	.00055	00570

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

			CA2D	747/1	OL SI CARRIER DATA			A	(RGN087) ( 01 DEC 75 1			
	REFERENCE	DATA						1	PARAHETRIC	DATA		
	rea cono co El	r. XMRP	= 1339.90	100 IN.XC				ALPHAC =	8.000	BETAC =	.600	
	500.0800 SQ.F1	1. XHRP YHRP		IBB IN.YC				ELV-18 =	.600	ELV-08 =	3.000	
	327.7800 IN.	ZHRP		OD IN.ZC				ELEVON =	5,000	HACH =	.600	
	348.0400 IN.	ZFRU	- 190.00	100 114,20				BETAO =	.000	PHI =	7.500	
SCALE =	.0380							DX -	10.000	ם אם	.000	
		RUN NO.	683/ 0	RN/L =	3.27	GRADIENT INTE	RVAL = .	00/12.00				
ALPHA0	ĐZ	MACH	DΧ	DY	BETA	D PHI	ALPHAH	9ETA	CL	CD	CLH	
10.202	-2.845	.60070	9.42630	.65380	.309		9.72550	.00720	.78970	. 14850	10199	
10.212	-2.048 .552	.60020	8.96280	.05120	.315		9.72650	.01490	.78740	.14790	08940	
10.232	4.877	.60020	8.36890	.05670	.317		9.72560	.01510	.79020	.14780	CB160	
10.267	12.472	.59990	7.32440	.07370	.318	30 7.50000	9.72098	.00769	.79710	. 14810	08240	
10.343	27.592	,59930	5.22440	.09540	.318	40 7.50000	9.71640	.02330	.81010	. 14930	08110	
10.377	42.540	.60030	3.14650	.11600	.318	20 7.50000	9.71420	.01650	.82330	. 15160	07650	
10.387	48.934	.69050	2.25810	. 12250	.316	70 7,50000	9.71250	.01650	.82830	. 15240	07900	
10.557	GRADIENT	.08080	13731	.00127	.000	55 .00000	00021	.00805	.00085	00002	.00180	
		RUN NO.	684/ 0	RN/L =	3.26	GRADIENT INTE	RVAL .	.00/ 12.00				
ALPHA0	DZ	MACH	DX	DY	BETA	O PHI	ALPHAR	BETA	CL.	CD	CLH	
14.557	-1.22!	.59970	0.03810	.07550	.875		9.75080	.00290	.71600	.13400	.03830	
14.553	1.801	.59960	7.63010	.09390	.875		9.75288	.00360	.71789	.13510	.04080	
14.564	6.393	.59920	7.00370	.09780	.876	10 7.50000	9.74630	.01280	.72780	.13660	.01920	
14.590	13.985	.59980	5.96410	.10350	.874	80 7.50000	9.74190	.01410	.74550	.13890	01189	
14.632	28.717	.60040	3.93720	.13370	.870	70 7.50000	9,73190	.01500	<b>.77</b> 320	. 14250	04310	
14.655	43.772	.59920	1.84850	.14770	.871	00 7.50000	9.72470	.01620	.79310	. 14540	~.05600	
14.654	48.457	.59900	1.19860	. 14870	.669	40 7.50000	9.72120	.02410	.79670	. 14620	05910	
14.656	53.011	.59990	.56350	. 15690	.869	00 7.50000	9.72150	.01640	.80250	.14700	06030	
		00809	13648	.00085	.000	07 .00000	00142	.00200	.00235	.08033	00470	

DATE OI DEC 75

CA20 747/1 01 St

-.83550

-1.34738

-2.36750

-3.41780

-4.42800

-.07800

.59970

.59969

.59920

.60010

.59960

.59940

-.00006

4.790

8.916

16.371

31.267

46.547

61.277

GRADIENT

14.705

14.694

14.687

14.692

14.697

14.698

10.14240

10.15560

10.18580

10.19680

10.21090

.00031

CARRIER DATA

(RCH088) ( 01 DEC 75 )

.12340

.07480

.01540

-.01320

-.03160

-.00668

.08980

.09320

.09670

.09840

.09990

.00027

.33460

.36700

.41320

.44280

.46250

.00428

+.00950

-.00660

-.01420

-.01260

-.00330

-.00037

5.85670

5.84520

5.82820

5.81760

5.80770

-.00119

PARAMETRIC DATA

	 FNC.	~ ~	
M-	 N.	E 11	

	KELENEM	E DAIA									
LREF =	500.0800 SQ. 327.7800 IN. 348.0400 IN. .0300	YHAP	= .(	9080 IN.XC 9080 IN.YC 9080 IN.ZC				ALPHAC = ELEVON = BETAO = DX	4.000 .000 5.000 .000	BETAC = ELY-OB = HACH = PH1 = DY =	.000 3.000 .600 7.500 10.800
	•	RUN NO.	790/ 0	RN/L =	3.35 GRA	DIENT INTER	VAL = .(	00.12.00			
ALPHAO 10.555 10.549 10.551 10.556 10.567 10.572	DZ .254 3.398 7.733 15.401 30.165 45.468 47.767 GRADIENT	MACH .60080 .59950 .60010 .60060 .60090 .59920 .59930	DX .71130 .49520 .20180 31960 -1.32890 -2.38060 -2.54180 06810	DY 10.12070 10.11910 10.11940 10.12750 10.14530 10.15660 10.16140 00016	BETAO .35260 .35390 .35340 .35020 .33860 .33400 .33220 .00009	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAH 5.84990 5.84950 5.84070 5.83350 5.82300 5.81600 5.81730 00128	BETA .00050 00580 .00080 00960 .00410 .00450 00320	CL .39030 .39750 .40910 .42940 .45840 .47750 .48030	CO .09650 .09670 .09740 .09870 .69970 .09980 .09990	CLH .04129 .03870 .02700 .00100 02800 04280 04730 00195
		RUN NO	. 793/ 0	RN/L =	3.32 GRA	DIENT INTER	IVAL = .	00/ 12.00			
ALPHAO 14,705	0Z 1.985 4.790	HACH .60000 .59970	DX 34990 54990	DY 10.14030 10.14100	BETAO .68850 .88850	PH1 7.50000 7.50000	ALPHAN 5.86510 5.86030	BETA 00709 00760	CL .37540 .31820	CD .08700 .08740	CLH .17020 .14510

.88720

.88140

.07110

.86690

.85990

-.00020

7.50000

7.50000

7.50000

7.50000

7.50000

DATE BI DEC 75

TABULATED SOURCE DATA - CA20

CADDIED DATA

(ROMBS) ( OI DEC 75

			CAEB	747/1	01 51		CA	RRIER DATA		(RGMOB	91 (O!DE	C 75 1
	REFERENCE	DATA								PARAMETRIC	DATA	
LREF = 3	100.0000 SQ.1 127.7800 IN. 148.0400 IN. .0300		0	880 IN.XC 880 IN.YC 880 IN.XC					ALPHAC CELV-IB CELEVON SETAO CDX	.000 5.000	BETAC = ELY-08 = HACH = PH1 = DY =	.008 3.000 .600 7.500 10.000
		RUN NO	748/ 0	RN/L =	3.31	GRADIEN	T · INTERV	AL0	0/ 12.00			
ALPHAO 10.378 10.387 10.354 10.402 10.423 10.434	DZ -1.632 1.654 6.264 13.375 28.632 43.693 47.364 GRADIENT	HACH .60020 .60010 .60010 .60060 .60090 .60070 .60030 .00000	DX 10.65360 10.62560 10.30850 9.62330 8.77710 7.73850 7.46270 06894	0Y 10.09140 10.08940 10.09400 10.10030 10.11670 10.12950 10.13340 .00100	.35 .37 .36 .35 .34	670 7. 940 7. 000 7. 640 7. 660 7. 900 7. 760 7.	HI 50000 50000 50000 50000 50000 50000 00000	ALPHAH 5.65680 5.65350 5.65260 5.65730 6.633630 5.63390 00020	8ETA .0002 .0082 .0007 .0014 .0016 .0119 0016	0 ,41840 0 ,42730 0 ,44200 0 ,46610 10 ,46420 10 ,46690 10 ,00193	CD .09520 .09600 .09670 .09600 .09890 .09930 .09940	CLH .02970 .03110 .02250 00270 03170 04950 05160 00187
ALPHAO 14.603 14.595 14.596 14.595 14.603 14.611	DZ 240 2.648 7.191 14.612 29.756 44.626 59.694 GRADIENT	HACH .59960 .59970 .59940 .59970 .59940 .59900 .59980	9.65580 9.45510 9.14070 8.63500 7.58700 6.55800 5.51570	DY 10.10520 10.10780 10.11050 10.12720 10.15000 10.17050 10.18640 .00059	.91 19. 19. 19. 19.	1100 7. 1230 7. 1150 7. 1760 7. 18550 7. 1130 7.	9H1 ,50000 ,50000 ,50000 ,50000 ,50000 ,50000	ALPHAN 5.88520 5.88570 5.88310 5.87400 5.85730 5.84810 5.83880 00079	BETA .0013 .0014 0146 .0016 005 003		.09180 .09560 .69720 .09810	CLH .16870 .15550 .13390 .08370 .01590 01370 03220

CARRIER DATA

(RGN090) ( 01 DEC 75 )

ERENCE	

# PARAHETRIC DATA

LREF =	500.0000 50.1 327.7800 IN. 348.0400 IN. .0300	FI. XHRRP YHRRP ZHRRP	. =	9600 IN.XC 9600 IN.YC 9600 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = OX =	8.000 .000 5.000 .000	BETAC = ELV-08 = HACH = PHI = DY =	.000 3.000 .600 7.500 E0.000
		RUN NO	. 799/ 0	RN/L =	3.28 GF	ADIENT INTER	VAL	00/ 12.00			
ALPHAO	DZ	HACH	ОX	DY	BETAO	PHI	ALPHAH	BETA	a	CD	CLH
10.357	035	.60030	-1.02460	10.11350	.32780	7.50000	9.66040	.01350	.77260	. 14640	67910
10.375	3.161	.59960	-1.45630	10.10080	.33850	7.50000	9.65910	.00480	.77540	.14600	08120
10,396	7.497	.60020	-2.04560	10.09530	.34380	7.50080	9.65930	.00230	.78260	. 14590	08370
10.435	14.798	.60070	-3.04220	10.09790	.34630	7.50000	9.65560	.00100	.79350	. 14660	09060
10.494	29.812	.59910	-5.10530	10.11650	.34030	7.50000	9.64940	.01370	.81180	. 14770	69190
10.518	45.359	.59950	-7.24650	10.13900	.33420	7.50000	9,64690	.00730	.82550	.14960	09050
10.522	47.338	.80820	-7.51759	10.14290	.33230	7.50000	9.64400	.00760	.82750	. 15020	08940
	GRADIENT	.00014	13591	00122	.00120	.08080	.00005	00058	.00143	00002	00058
		RUN NO	. 796/ 0	RN/L =	3.29 GF	RADIENT INTER	IVAL = .	00/ 12.00			
ALPHAO	DZ	HACH	אם	DY	DETAG	PHI	ALPHAH	BETA	CL	CD	CLH
14.594	1.481	.59350	-2.22770	10.14370	.87480	7.50000	9.69560	00300	.68690	.13100	.02230
14.602	4.549	.59900	-2.64420	10.13000	.88110	7.50000	9.69070	00590	.69470	.13190	.00650
14.617	8.657	.59930	-3.20750	10.11850	.88520	7.50000	9.69790	00250	.70960	.13370	01700
14.642	16.518	.53980	-4.27940	10.12340	.88400	7.50000	9.67930	.00160	.73488	.13650	04660
14.671	31.266	.59980	-6.30190	10.14970	.87470	7.50000	9.66690	00270	.76850	.1410B	~.06740
14.687	46.167	.60010	-8.35180	10.17100	.88860	7.50000	9.65650	00210	.79170	.14390	07530
14.696	61.030	.60020	-10.40650	10.19280	.86220	7.50000	9.65050	.00750	.80880	.14660	08030
030	GRADIENT	00002	13657	00346	.00142	.00000	00105	.00011	.00319	.00038	00551

DATE OI DEC 75

TABULATED SOURCE DATA - CARD

4

			CAED	747/1	01 51		c	ARRIER DAT	'A	(AGN09	11 (010	EC 75 )
	REFERENCE	DATA								PARAHETRIC	DATA	
LREF =	500.0000 SQ.FT 327.7800 IN. 348.0400 IN. .0308	T. XMRP TANY	<b>.</b> 0	000 IN.XC 000 IN.YC 000 IN.ZC					ALPHAC = ELV-18 = ELEVON = BETAO = OX =	8.000 .000 5.000 .000 10.000	9ETAC = ELV-08 = HACH = PHI = DY =	.000 3.090 .600 7.500 10.000
		RUN NO.	749/ 0	RN/L =	3.28	GRAD	IENT INTER	IVAL = .	00/ 12.00			
ALPHAO 10.211 10.231 10.254 10.284 10.350 10.390 10.396	DZ -2.473 .694 5.170 12.734 27.679 42.827 47.827 GRADIENT	MACH .60010 .59940 .59950 .59950 .59970 .60050 .00002	D*. 9,37070 8,93760 8,32140 7,28040 5,20360 3,09470 2,39640 -,13739	OY 10.09498 10.09320 10.07530 10.07600 10.09700 10.11470 10.12240 00176	.35 .35 .34	320 240 020 206 550 150 836	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.5000000000	ALPHAH 9.73370 9.73220 9.73090 9.72630 9.72610 9.71990 9.72100 00029	BETA .00410 .00470 .00260 .00110 .00560 .00560 .00590 00047	CL .79710 .79450 .79890 .80630 .82030 .83210 .83540	C0 .14880 .14810 .14800 .14930 .14960 .15150 .15230	CLH -,09920 -,08520 -,08560 -,09030 -,09090 -,08730 -,08750 -,00009
ALPHAO. 14.458 14.468 14.487 14.517 14.559 14.586 14.586	DZ -1.845 1.617 6.361 13.973 28.740 41.606 42.477 58.866 GRADIENT	MACH .59970 .59960 .60050 .60050 .60010 .59970 .60050 .59920	DX 8.15120 7.67690 7.02750 5.97980 3.93560 2.22730 2.02840 26060 13689	DY 10.11760 10.10740 10.09550 10.09510 10.12300 10.13620 10.13900 10.16340 00251	98. 98. 98. 98. 98.	7A0 9550 9290 9700 9650 9880 9270 9110 9240	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 00000	ALPHAN 9.75910 9.75920 9.75520 9.74700 9.73940 9.72820 9.72500 -,00074	.00240 .00250 .01360 .00160 .00370 00330 00310	CL .72820 .72930 .73950 .75630 .78860 .80220 .81720	CD .13550 .13570 .13690 .13670 .14260 .14530 .14600 .14840	CLM .03620 .03300 .00900 02430 05820 06550 06720 07580 00506

# CARRIER DATA

(RGH092) ( 01 DEC 75 3

PARAMETRIC DATA

# REFERENCE DATA

LREF		5500.0000 SC 327.7800 th 2348.0400 lh	N.	YHRP	-	0000. 0000. 0008.091	IN.YC	ALPHA ELV-II ELEVO BETAO DX	B	-	4.009 .000 5.000 .000	BETAC ELV-09 HACH PHI DY		3.000 3.000 .600 7.500 10.000
------	--	---	----	------	---	----------------------------	-------	---	---	---	--------------------------------	--------------------------------------	--	---

ALPHA0 10.577 10.565 10.564 10.561 10.569 10.574	DZ 150 3.399 7.766 15.573 30.037 45.241 47.768 GRADIENT	RUN NO. 789/ 0  MACH DX .59980 .72100 .60030 .48180 .60060 .18390 .59960 -1.33700 .60010 -2.37860 .59970 -2.55580 .0000706901	RN/L =  DY  9.96510 8.96963 6.97340 8.97960 8.99030 9.00170 9.00290 .00087	BETAO .36580 .36070 .35770 .35300 .34320 .33720	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAH 5.84990 5.84670 5.83930 5.83440 5.82300 5.81630 5.9179900169	BETA 4.98850 4.98640 4.96560 4.96720 4.97980 4.99170 4.93160 00018	CL .39630 .40550 .41930 .43890 .46410 .48220 .48420	CD .09040 .09130 .09250 .09340 .09480 .09420 .00027	CLH .06550 .05150 .02440 08830 04150 05160 05430 09619
ALPHAO 14.741 14.723 14.712 14.701 14.695 14.699	9Z 1.968 4.932 8.956 16.604 31.346 46.655 61.405 GRADIENT	RUN NO. 794/ 0  HACH	9.07530 9.07510 9.07150 9.09280 9.10510 9.11560 9.113090	8ETA0 .69280 .69060 .68960 .66480 .67490 .65940	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAM 5.86070 5.85950 5.85570 5.84130 5.82510 5.81480 5.80750 00073	9ETA 5.00420 5.0080 5.01510 5.00370 5.00290 4.95540 5.00490 .00154	CL .31690 .32650 .34370 .42099 .44670 .46840 .00384	CD .07950 .68000 .08370 .08800 .09130 .09270 .09340 .00063	CLH .18590 .16050 .13110 .07060 .00560 02450 04020 00770



PAGE 53

DATE BI DEC	75	TABULA	TED SOURCE	DATA - CA	20							
			CYSO	747/1	01 SI		CAR	RIER DATA	_	(RGN09		: 75 }
	REFERENCE	DATA							F	arametric	DATA	
REF = 3	00.0000 SQ.FT 27.7600 IN. 48.0400 IN. .0300	ZHRP	<b>.</b> 00	IN.XC IOO IN.YC IOO IN.ZC					ALPHAC = ELV-18 = ELEVON = ETAO = DX =	4.000 .000 5.080 .000 10.080	BETAC = ELV-08 = HACH = PHI = DY =	5.000 3.000 .600 7.500 10.000
		RUN NO.	. 756/ 0	RN/L =	3.27	GRADIE	NT INTERV	AL = .0	0/ 12.00			
ALPHAO 10.407 10.397 10.396 10.403 10.415 10.423	DZ -1.572 1.295 5.872 13.650 28.531 43.642 47.246 GRADIENT	MACH .60030 .60000 .60080 .60030 .59970 .60020 .60080	0X 10.83100 10.63680 10.3257J 9.79170 8.76650 7.7630 7.47400 06799	0Y 8.07640 8.07760 8.08270 8.08280 8.09390 8.10690 8.11120	.36 .35 .35	780 1490 1490 1490 1780 1840 18200 1890 1890 1898	PH1 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAN 5.85940 5.85760 5.85460 5.85130 5.84310 5.83750 5.83890 00066	8ETA 4.98230 4.98060 4.97180 4.96920 4.97310 4.97480 4.97480 4.97490 00192	CL .42330 .42590 .43380 .44910 .47170 .48660 .48940	CD .09020 .09040 .09160 .09240 .09300 .09340 .09380	CLM .05110 .04670 .02420 00970 04660 05630 05640 00492
		RUN NO	). 759/ 0	RN/L =	3.24	GRADI	ENT INTER	/AL = -	00/ 12.00			
ALPHAO 14.648 14.628 14.615 14.606 14.610 14.615	DZ 347 2.762 7.144 14.929 29.445 44.677 59.607 GRADIENT	MACH .60040 .60080 .59940 .59920 .59910 .59920 -,00032	0X 9.63370 9.42610 9.12910 8.60060 7.60310 6.55210 5.51130 06800	DY 8.18350 8.18750 8.18710 8.19200 8.22120 8.23570 8.25220 00005	.9 .9 .9 .9 .8	147 <b>0</b> 1280 1230 0870 0000	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAN 5.88520 5.87930 5.87670 5.85460 5.85130 5.83930 5.83790 00059	BETA 4.98300 4.97890 4.97800 4.97460 4.96530 4.95520 4.97470 00021	CL .35160 .35590 .39540 .43110 .45720 .47321	.07920 .08310 .08680 .09030 .09280 .09290	CLH .19830 .17840 .14530 .07890 .01130 02430 04140

			CAZO	747/1	01 51		CARRIER DA	ATA	(RGNOS	743 CB] (	EC 75 1
	REFERE	NCE DATA							PARAHETRIC	DATA	
SREF = !	5500.0000 S			008 IN.XC				ALPHAC =	8.000	BETAC =	5.000
LREF =	327.7800 1	N. YHR	P = .0	OBO IN.YC				ELV-IB =	.000	ELV-08 =	3.000
	2348.0400 E	N. ZHRI	P = 190.8	000 IN.ZC				ELEVON =	5.000	MACH =	.600
SCALE =	.0380							BETAO -	.000	PHI =	7.500
		•		•				ĐX -	.000	DY =	10.000
		RUN N	0. 800/ 0	RN/L =	3.28	GRADIENT I	NTERVAL =	.00/ 12.00			
ALPHAO	DZ	MACH	ΩX	DY	BETA	to PHI	ALPHAR	i BETA	CL	CD	CLH
10.383	121	.59930	-1.02330	8.91870	.347	720 7.500	00 9.65660	4.99450	.78730	.14100	09520
10.394	3.280	.59930	-1.48700	8.91930	.345	90 <b>7.</b> 500	09 9.65730	4.99140	.79210	. 14030	10420
10.409	7.350	.60060	-2.03700	8.91600	. 344	70 7.500	00 9.65340	5.00470	.79690	.14010	11190
10.448	15.415	.59950	-3.142BD	8.91490	.346	370 7.500	00 9.65240	4.99410	.80650	.14020	12316
10.565	30.092	.60000	-5.16910	8.92880	.341	50 7.500	00 9.64660	5.00160	.82320	.14280	12660
10.523	45.305	.59990	-7.25270	8.94660	.336	340 7.500	00 9.64150	4.98740	.83760	. 14370	12620
10.526	47.357	.60070	<del>-</del> 7.53260	8.94780	. 334	180 7.500	00 9.53840	4.99510	.84010	.14410	12660
	GRADIENT	.00032	13514	00001	000	1000. est	0000096	,00327	.00118	00005	00189
		RUN NO	). 795/ 0	RN/L =	3.30	GRADIENT I	NTERVAL =	.00/ 12.00			
ALPHAO	DZ	MACH	DX	DY	BETA	(O PH)	ALPHAH	BETA	CL	CD	CLH
14.609	1.223	.59980	-2.21010	9.06050	.878	2 <b>0 7.</b> 500	09 9.69330	4.97390	.69960	. 12510	.02110
14.604	4.295	.68010	-2.62530	9.04320	.877	180 7.500	00 9.68930	4.98640	.71080	.12690	00500
14.610	9.059	.60030	-3.27870	9.02810	.881	10 7.500	9.68390	4.99180	.72580	.12930	- 04020
14.633	16.424	.59900	-4.27940	9.03250	.881	90 7.500	00 9.67580	4.98360	.74770	.13080	07090
14.673	31.163	.60010	-6.30030	9.04260	.875	18 <b>0 7.5</b> 001	9.66440	4.99120	<b>.7</b> 7940	.13500	10200
14.696	46.448	.59990	-8.40360	9.06230	.970	140 <b>7</b> .5001	00 9.65340	4.97790	.80390	.13960	11310
14.698	61.101	.60050	-10.43360	9.68130	.865	90 7.5000	00 9.64950	4.98688	.82140	.14130	11810
	GRADIENT	.00006	13571	00403	.000	1830008	0000119	.80217	.00331	.00053	00774

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

PAGE 5

			CA20	747/1	01 SI	ć	CARRIER DATA		(RGNOS	5) (0106	EC 75 )
	REFEREN	CE DATA							PARAHETRIC	DATA	
SREF - S	:500.000C SQ	i.ft. XMRP	<b>=</b> 1339.9	1000 IN.XC				ALPHAC =	8.000	BETAC =	5.000
LREF =	327.7800 IN	. YHRP	<b>=</b> .8	809 IN.YC				ELV-18 .	.000	ELV-08 =	3.000
BREF = 8	348.0400 IN	. ZMRP	- 190.E	1800 IN.ZC				ELEVON =	5.000	MACH =	.608
SCALE =	.0300							BETAO -	.000	PHI #	7.500
								DX -	10.000	DY =	10.000
		RUN NO.	757/ B	RN/L =	3.26 GR/	DIENT INTER	RVAL = .1	00/12.00			
ALPHAO	DZ	MACH	DX	DY	<b>BETAO</b>	PHI	ALPHAH	BETA	CL	CD	CLH
10.229	-2,945	.60069	9.43320	0.02160	.36630	7.50000	9.72940	4.98930	.80030	. 14550	09870
10.238	.916	.59990	0.90030	8.82590	.36290	7.50000	9.72990	4.97780	.79960	.14520	101 <del>9</del> 0
10.254	5.217	.59920	8.30690	8.02100	.36370	7.50000	9.72940	4.98330	.80100	. 14450	10720
10.286	12.241	.60010	7.33910	8.02610	.35490	7.50000	9,72730	4.96470	.80780	. 14490	11560
10.352	27.562	.60020	5.20990	8.03700	.35920	7.50000	9.72460	4.97830	.82240	. 14698	12120
10.383	42.621	.59970	3.12800	6.05510	.35360	7.50000	9.71610	4.97170	.83350	. 14750	12040
10.385	47.697	.59990	2.41280	8.05700	.35090	7.50000	9.71670	4.97960	.83920	. 14810	12230
	GRADIENT	00016	13752	00114	.00019	.00000	00012	.00128	.00033	-,00016	00123
		RUN <b>NO.</b>	758/ 0	RN/L =	3.26 GR	ADIENT INTER	RVAL	08/ 12.00			
ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAN	BETA	CL	CD	CLH
14.510	-1.170	.60020	8.03630	8.17130	.90250	7.50000	9.75370	4.98380	.73530	.13040	.02170
14.584	1.917	.60050	7.62130	8.16420	.905B0	7.50000	9.75550	4.97220	.73770	.13070	.01810
14.507	6.286	.59960	7.02320	8.15640	.90740	7.50000	9.75180	4.96980	.74740	. 13210	01490
14.530	13.646	.68020	5.98650	8.14470	.90720	7.50000	9.74458	4.98380	.76120	. 13439	04330
14.567	29.243	.60030	3.86020	8.15720	.90150	7.50000	9.73420	4.97640	.78310	. 13920	08050
14.554	43.847	.60080	1.82560	8.17000	.89540	7.50000	9.73000	4.97790	.80120	.14290	09490
14.605	58.656	.60070	24170	8.19240	.88780	7.50000	9.72470	4.97150	.81600	. 14520	10400
	GRADIENT	00021	13690	00179	.00037	.00000	00085	00655	.00222	.00032	~.00755

CA20 747/1 01 51

CARRIER DATA

(RGN096) ( B) DEC 75 )

PARAMETRIC DATA

#### REFERENCE DATA

LREF =	500.6000 SQ. 327.7800 IN. 348.0400 IN. .0300	AMSO	٠	980 IN.XC 980 IN.YC 980 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = OX =	4.000 .800 5.660 -5.668	96TAC * ELV-09 = HACH = PHI = DY =	-5.000 3.000 .600 7.500 10.000
	•	RUN NO.	. S04/ D	RN/L =	3.23 GRA	DIENT INTER	VAL = .0	12.00			
ALFHAO 10.581 10.577 10.576 10.593 10.601 10.617	0Z .639 3.578 7.654 15.309 30.620 45.347 47.836 GRADIENT	MACH .59920 .59970 .60050 .60030 .60040 .50960 .00009	0x .65310 .45410 .16150 34730 -1.40130 -2.42020 -2.59130 06919	DY 13.60330 11.60440 11.61590 11.63520 11.66910 11.68650 .00181	BETAO -4.50570 -4.50560 -4.90650 -4.91210 -4.92620 -4.92690 -6.0017	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.60000 0.00000	ALPHAN 5.85380 5.84720 5.84590 5.83640 5.82710 5.81980 00104	BETA -4.99080 -4.98290 -4.97530 -4.97330 -4.97290 -4.97290 -4.97190 .00212	CL .38170 .38760 .39780 .41770 .44920 .46910 .47140 .60224	.09030 .09030 .09080 .09180 .09130 .09130 .09130	CLH .03180 .03530 .02850 .60940 ~.01750 ~.03330 ~.03608 ~.00054
ALPHAO 14.802 14.786 14.775 14.774 14.779 14.774 14.772	DZ 1.971 4.974 9.438 16.557 31.753 47.052 61.439 GRADIENT	HACH .60070 .60090 .59980 .60050 .60030 .60020 .59970	DX 39910 60690 91750 -1.40750 -2.45270 -3.50320 -4.49830 06943	DY 11.58740 11.58650 11.59210 11.61960 11.69460 11.65280 11.67890	9ETAO -4.33990 -4.33680 -4.33400 -4.35890 -4.36560 -4.37510	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 0.00000	ALPHAN 5.87680 5.87760 5.96150 5.96150 5.94370 5.92950 5.92190 00112	BETA -4.99520 -4.99020 -4.97870 -4.98040 -4.98910 -4.97970	CL .30720 .31140 .33020 .35620 .40490 .43630 .45680	CD .08310 .08420 .08570 .08900 .09220 .09370 .09370	CLH .11190 .12540 .0400 .07910 .02030 00850 02650 00135

DATE DI DEC 75

LREF

EREF =

SCALE =

ALPHAO

10.393

10.413

18.438

10.483

10.527

10.554

10.569

ALPHAO

14.680

14.684

14.700

14.711

14.732

14.745

14.748

327.7800 IN.

2348.0400 IN.

ΟZ

-.093

2.692

7.530

15.189

29.943

45.352

47.556

**GRADIENT** 

DZ

.829

3.926

7.951

15.864

30.777

45.232

60.426

GRADIENT

.59950

.60050

.59950

.59980

.69920

.59990

.00002

-2.59130

-3.13840

-4.22030

-8.27550

-8.28290

-.13567

-10.26950

.0300

TABLEATED SOURCE DATA - CA20

CARRIER DATA LRGN0971 ( 01 DEC 75 ) 747/1 01 51 CVSO PARAMETRIC DATA REFERENCE DATA -5.000 8.000 BETAC ALPHAC = . XMRP 1339.9000 IN.XC 5500.0000 SQ.FT. 3.000 ELV-18 = .000 ELV-OB . .0080 IN.YC YMRP .600 5.000 HACH ELEVON = ZMRP 190.8000 IN.ZC 7.500 PHI BETAO = ~5.000 ĐΧ .000 DY 10.000 GRADIENT INTERVAL = .00/ 12.00 8UN NO. 811/ 0 RN/L = 3.28 CD CLH BETA CL BETAG PHI ALPHAH DX DY MACH -.08418 9.67230 -4.98240 .75530 . 13960 -4.92378 7.50000 11.61169 .59910 -1.05199 -.08450 .75980 .13960 9.67070 -4.97430 -4.91330 7.50000 .60020 -1.45190 11.60380 .13950 -.08260 .76630 7.50000 9.66620 -4.97440 11.60720 -4.90870 -2.08240 .59330 .78030 . 14040 -.09640 9.66350 -4.97360 7.50000 11.63100 -4.91160 .60080 -3.13490 -.09290 .00090 .14170 9.65390 -4.97220 -5.16010 1..67390 -4.92360 7.50000 .59960 . 14280 -.09830 7.50000 9.65000 -4.97110 .81836 -4.92950 -7.29310 11,78260 .60010 -.09820 -4.98630 .82020 .14280 -4.93000 7.50000 9.65160 11.70560 .59990 -7.60080 -.00002 .00041 .00140 .00099 .00000 -.00097 -.000002 -.00005 -.13565 .00139 3.26 GRADIENT INTERVAL # .00/ 12.00 RUN NO. 810/ 0 RN/L = CL.H ALPHAH BETA CL ÇD DY BETAO PHI DX MACH .00850 -4.97590 .66300 . 12420 9.70740 -2.17220 11.50110 -4.34470 7.50000 .68040 .67330 .12610 -.00120 9.69930 -4.98360

7.50000

7.50000

7.50000

7.50000

7.50000

7.50000

.00000

9.69450

9.68490

9.67290

9.66090

9.59040

-.00178

-4.98398

-4.97770

-4.97590

-4.98040

-4.96340

-.00107

-4.33890

-4.33550

-4.33950

-4.35420

-4.36110

-4.37020

.00127

11.56530

11.58450

11.60190

11.65440

11.67750

11.69300

.00044

PAGE

. 12790

.13130

.13560

.13810

.14080

.00052

.69710

.71410

.75400

.78090

.80120

.00339

-.01110

-.03650

-.06650

-.07980

-.08960

-.00274

57

-4.52010

-.06996

-.00042

.60050

-.00017

61.842

GRADIENT

14.777

.000

.00035

.00408

-.00122

.00000

86000.-

ALPHAC =

BETAC =

## REFERENCE DATA

cocc	_	5500.0000	SO.FT.	XHRP	-	1339.9000	IN.XC
				YMRP	#	.0000	IN.YC
		327.7808		ZHRP		190.6000	
8REF	•	2348.0400	IN.	ZI HIL	-	12010302	
SCALE	-	.0380					

# PARAHETRIC DATA 4.883

LREF = 3	100.0000 SQ.FT. 127.7800 IN. 148.0400 IN. .0300	, XHRP YHRP ZHRP	.00	000 IN.XC 000 IN.YC 000 IN.ZC				ELV-18 = ELEVON = BETAO = DX =	.000 5.000 -5.000	ELV-08 = HACH = PHI =	3.000 .500 7.500 10.000
		RUN NO.	803/ 0	RN/L =	3.29 GRA	DIENT INTERI	/AL = .01	0/ 12.00			
ALPHAO 10.599 10.581 10.595 10.597 10.599 10.609	.754 3.682 7.812 15.159 28.483	MACH .59940 .59900 .60050 .60020 .60030 .60080 .60020	DX .66640 .46960 .16690 -31050 -1.22300 -2.39680 -2.55520 06796	DY 19.56860 10.56500 10.57170 10.56790 10.59818 10.61570 10.61480 .00052	8ETAO -4.90970 -4.90860 -4.91090 -4.92080 -4.92850 -4.92850 00014	PH1 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAH 5.84440 5.84070 5.83450 5.82350 5.81450 5.80530 5.80550 00141	BETA 00200 .00000 .00630 .00350 00380 .00650 .00600	CL .36320 .37300 .38980 .41370 .44440 .46910 .47200 .00379	CD .09200 .09290 .09470 .09670 .09870 .09970 .09970	CLH .11570 .10290 .07010 .03060 00790 03070 03360 00656
		RUN NO.	. 806/ 0	RN/L =	3.28 GR/	DIENT INTER	VAL = .0	10/ 12.00			
ALFHAO 14.897 14.795 14.785 14.782 14.782	2.070 5.159 9.244 17.214 31.661 47.097	MACH .60080 .68030 .59950 .60030 .59940 .60050	0x 39660 60460 68860 -1.43520 -2.42890 -3.49310 -4.52010	0Y 10.63100 10.62760 10.62780 10.62940 10.65410 10.65970	BETAO -4.3420 -4.34200 -4.34200 -4.34560 -4.35590 -4.36210 -4.37040	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAN 5.88990 5.88920 5.88130 5.66420 5.84360 5.83380 5.83390	BETA .00980 .01080 .00310 .01520 .01300 .01160	CL .28360 .29430 .31270 .35310 .40350 .43530	CO .08240 .08340 .09490 .09090 .09560 .09630	CLH .22010 .20550 .17570 .10300 .02860 00350 02440 00625
11. 777	61.842	.60050	-4.98010	10.000.0			00122	_ 00000	.00408	.00035	<b></b> 000¢⊃

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

-.00230

-.13714

-.00803

GRADIENT

(RGN099) ( 0) DEC 75 ) CA20 747/1 01 51 CARRIER DATA PARAMETRIC DATA REFERENCE DATA ALPHAC = 8.000 BETAC . .000 XMAP = 1339.8000 IN.XC SREF - 5500.0000 EQ.FT. 3.000 ELV-IB -.000 ELV-09 . YMRP .0000 IN.YC 327,7800 IN. LREF . ELEVON . 5.080 HACH .600 190.8000 IN.ZC ZHRP BREF \* 2348.0400 IN. BETAG = -5.000 PHI 7.500 SCALE . .0300 10.000 DY DX .000 GRADIENT INTERVAL \* .00/ 12.00 3.26 RUN NO. 812/ 0 RN/L = CLH ALPHAH BETA CL CD PHI BETAO DX DY ALPHA0 DZ MACH .14330 -.02950 -.00310 .75270 9.67260 -4.93340 7.50000 -.96780 10.55670 -.598 .60800 10.406 .75950 .14370 -.04430 -4.92570 7.50080 9.66000 -.00610 -1.45270 10.54650 .60030 10.423 3.085 -.05740 .76900 . 14420 7.50000 9.66960 -.00850 -4.91900 -2.07700 10.53970 7.573 .60010 10.446 -.07270 9.66200 -.00269 .78300 . 14570 -3.15800 10.53970 -4.91500 7.50000 10.488 15.463 .60050 .14790 -.07840 9.65470 .00010 .80340 10.56410 -4.91980 7.50000 .59930 -5.18260 10.541 30.172 .01950 .15010 -.08210 9.64680 .00120 -4.92660 7.50000 .59930 -7.22310 10.59760 44.935 10.563 -.08210 .14780 .00120 .81090 -4.92750 7.50080 9.54790 -7.43590 10.58970 ,60010 47.483 10.557 -.00287 .00035 -.00053 .00106 .00011 .00000 .00147 -.13666 -.00149 GRADIENT -.00004 GRADIENT INTERVAL \* 3.27 .08/ 12.00 RN/L = RUN NO. 809/ 0 CD CLH ALPHAH BETA CL DY BETAO PH1 HACH ĐΧ DZ ALPHA0 .06710 .00160 .67400 .12820 9.78690 10.62000 -4.36030 7.50000 .60010 -2.20570 14.690 .880 -.00800 .68360 .12980 .04420 -4.35390 7.50000 9.78560 .59920 -2.61840 10.61290 3.893 14.694 .13270 .01000 .70200 9.77680 .00430 -4.34950 7.50000 -3.19440 10.60340 .59590 14.701 8.089 . 13620 -.02530 9.76790 -.00550 .72720 7.50000 10.60120 -4.34600 -4.22500 14.719 15.576 .60050 -.06310 .76950 .14240 -.00450 7,50000 9.75500 -6.31890 10.63630 -4.35490 .59970 30.598 14.734 .14640 -.06890 .79580 -4.36030 7.50000 9.74330 -.00010 -0.39220 10.65290 .60808 14.751 45.433 .00100 .81290 .14930 -.07430 9.73740 7.50000 -4.36690 .59990 -10.42840 10.66490 14.752 60.072

.00147

PAGE 59

.00392

.00054

-.00145

.00000

.00663

-.00793

DATE OI DEC 75

			CYSO	747/1	01 51	C.	ARRIER DATA		(RONLO	0) (	C 75 )
	REFERENCE	DATA						1	PARAHETRIC	DATA	
		- 1/1/5/5	= 1339.90	00 IN.XC				ALPHAC =	4.800	BETAC =	5.000
	500.0000 <b>50.</b> F		****	BD IN.YC				ELV-IB =	.000	ELV-08 =	3.000
	327.7800 IN.	YHRP		80 IN.ZC				ELEVON =	5.000	MACH =	.600
	348.0400 IN.	ZHRP	= 190.80	00 IN.20				EETAO -	-5.000	PH1 =	7.500
SCALE =	.0300							Ox •	.000	DY -	10.000
		RUN NO.	. 802/ 0	RN/L =	3.31 G	RADIENT INTER	VAL = .0	0/ 12.00			
44 E144 O	DZ	MACH	DX	ΩY	BETAO	PHI	ALPHAH	BETA	CL	CD	CrH
ALPHAD	.542	.60000	.65220	9.42040	-4.89370	7.50000	5.84060	4.96470	.37970	.08560	.03850
10.632	3.385	.60040	.47030	9.42520	-4,89960	7.50000	5.83720	4.97198	.38890	.08800	.67110
10.612	7.664	.60000	. 18040	9.43110	-4.90530	7.50080	5.03210	4.98928	.40200	.09050	.04270
10.597	15.623	.60090	35820	9.44230	-4.91010	7.58000	5.82130	4.96770	.42460	.09300	.00730
10.597	30.599	.59980	-1.38180	9.45100	-4.91870		5.81040	4.98430	.45370	.09430	02430
10.664		.60010	-2.36970	9.46750	-4.92620	7.50000	5.80330	4.97660	.47330	.09480	04330
10.607	45.321 47.816	.59969	-2.56310	9.47658	-4.92700		5.60230	4.98460	.47580	.09470	-,04440
10.608	GRADIENT	00001	06765	.00149	00160		00119	.00349	.00313	.03068	00645
	DHAUTENT	00001	.00703								
		RUN NO	. 807/ 0	RN/L =	3.28 G	RADIENT INTER	3. = _LAVI	10/ 12.00			
A1 C114C	DΖ	MACH	DХ	DY	DETAD	PHI	AL PHAH	BETA	CL.	CD	CLH
ALPHAO	2.028	.59920	39040	9.55980	-4.33510	7,50000	5.85930	4.97110	.30360	.07800	. 18400
14.862	2.USB 4.948	.60030	53900	9.55940	-4.33560	7.50000	5.65320	4.97710	.31380	.07830	. 15750
14.831	9.169	.68840	87690	9.56428	-4.33950		5.84700	4.98400	.33050	.08130	.12810
14.807		.59910	-1,40070	9.56640	-4.34260		5.83710	4.98590	. 36340	.08700	.07730
14.793	16.781	.55510	-2.41640	9.57980	-4.35320		5.81770	4.99680	.40910	.09160	.01390
14.783	31.685	.69930	-3.45430	9.59590	-4.35850		5.00080	4.98200	.43960	.09330	01770
14.782	46.800	.00000	-0.10130	0 50750	-4 36728		5.80130	4.99120	.45970	.09390	03410

-4.36720

-.00064

9.60740

.00085

61.889 GRADIENT

14.777

.60060

.00016

-4.49120

-.06814

7.50000

.00000

5.80130

-.00170

.00384

.00179

.00048

**-.00777** 

GRADIENT

TABULATEO	SOURCE	DATA	-	CA20	
-----------	--------	------	---	------	--

DATE OI DEC 75 (RGN1011 ( 01 DEC 75 ) CARRIER DATA 01 51 747/1 CA28 PARAMETRIC DATA REFERENCE DATA 5.000 BETAC -ALPHAC = 8.000 1339.9000 IN.XC XMRP 3.000 5500.0000 SQ.FT. ELV-08 . ELV-IB = .000 .0000 IN.YC YHRP .600 327.7800 IN. HACH ELEVON = 5.000 LREF 190.8000 IN.ZC ZHRP 7.500 2348.6460 IN. PHI -5.000 BREF = BETAC = 10.080 .0308 .000 ΩY SCALE \* DX .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.25 813/ 0 RUN NO. CLH CD CL ALPHAH BETA PHI BETAD DY ĐΧ -.07140 HACH .14060 ĐΖ .76360 ALPHA0 5.00340 9.67500 -4.90170 7.50000 -1 00350 9.33640 .59950 .14160 -.07960 -.442 .76580 10.452 4.99520 7.50000 9.67640 -4.90830 9.34360 -1.48320 -.08780 .59940 .14150 3.090 .77080 10.446 5.00300 9.67680 7,50000 9.33990 -4.90990 -2.07650 -.09910 7.446 .59950 .78190 .14288 10.457 4.98840 9.67040 -4.91170 7,50000 9.35320 -3.16620 .60030 -.10590 .14480 15.485 10.492 5.00330 .80850 9.66170 7,50809 -4,91650 9.35460 -5.21950 .59990 -.11020 . 14680 10.544 30.322 4.99650 .81730 7.50000 9.65800 -4.92340 9.38730 .60030 -7.24190 -.18970 .14690 10.565 44.566 .81930 9.65730 4.99660 7.50000 -4.92370 9.39030 -7.59050 -.00188 .59940 47.970 .00011 10.568 .00115 .00009 .00179 .00000 ~.00037 -.00085 -.13620 GRADIEN. .00002 12.00 GRADIENT INTERVAL = 3.28 RN/L = RUN NO. 808/ 0 CLH CL. CD ALPHAN BETA BETAO PHI DY DΧ HACH .12200 .00810 ĐΖ .68330 ALPHA0 4.96760 9.70840 7.50000 -4.34530 9.52040 -2.26980 .59960 -.00960 .12460 1.500 14.737 4.97450 .69760 9.70310 7.50000 9.51530 -4.34640 -2.70730 .59970 -.03670 4.732 .12800 14.727 .71320 4.93770 9.69750 7.50000 -4.34710 9.50660 -3.30300 .60070 -.05970 .13130 9.125 14.725 .73190 9.68920 4.98480 -4.34540 7.50000 -4.35290 9.50260 .59920 -.08380 .13750 14.735 16.820 ,76220 9.67960 4.98700 7.50000 -4.35200 9.52470 .60060 -6.39490 -.09260 31.671 .14110 14.755 4.99740 .76510 7.50800 9.67160 -4.35700 9.53750 -8.45280 .60030 -.10250 46.554 . 14410 .80390 14.761 4.98910 9.66500 7.50080 -4,36580 -10.55320 9.56010 .60010 .00079 -.00589 61.712 .00316

-.00023

-.00165

-.13552

.00015

.00403

-.00142

.00000

PAGE 51

DATE OF DEC 75

			CAZO	747/1	01 51	C	ARRIER DATA		(RGN10)	2) ( DI DE	C 75 )
	REFERENC	F DATA					-	ı	PARAHETRIC	DATA	
	1551 5-140-14									BETAC =	-5.000
SREF =	5500.0000 50.	FT. XHRP	<b>= 1339.9</b>	000 IN.XC				ALPHAC =	4.000	ELV-08 =	3.000
LREF =	327.7800 IN.	YHRP	.8	DOD IN.YC				ELV-18 =	.000	HYCH =	.500
	2348.6400 IN.		= 190.8	800 IN.ZC				ELEVON -	5.000 -5.000	PHI =	7.500
SCALE *	.0300							BETAO = DX =	-5.000	DY =	10.009
								UA -			
		RUN NO.	815/ D	RN/L =	3,26 G	RADIENT INTER	VAL =	00/12.00			
		HACH	ОХ	DY	BETAO	PHI	ALPHAH	DETA	CL.	CD	CLH
ALPHAC			39550	11.56920	-4.33750	7.50000	5.87520	-4.98760	.30440	.09300	. 11370
14.790	1.983	.60070 .60000	59210	11.57770	-4.33630	7.50000	5.87430	-4.98050	.30800	.08400	. 12760
14.773	4.801		69880	11.57780	-4.33780		5.86980	-4,96350	.32620	.08570	.10720
14.771	9.259	.59970 .60030	-1.42840	11.59840	-4.34500		5.86010	-4.97990	.35380	.08950	.07910
14.770	16.962	.60020	-2.43150	11.62030	-4.35920		5.84300	-4.97290	.48060	.09230	.02350
14.773	31.562	.60020	-3.47550	11.64520	-4.36560		5.82880	-4.57390	.43190	.09350	00420
14,769	46.760 61.866	.60010	-4.51840	11.66000	-4.37310		5.82040	-4.97220	.45440	.09370	02530
14.769	GRADIENT	00013	~.06913	.00096	06007		00077	.00336	.00309	.00037	00123
	ODGILII	.00010	••								
			CAZI	747/1	01 51	c	ARRIER DAT	Ά.	(RGN10	3) (D) D	EC 75 *
	REFEREN	CE DATA							PARAHETRIC	DATA	
	PLET EILEIT	CL Ditte									
SREF =	5500.0000 50	.FT. XHRP	- 1339.9	3000 IN.XC				ALPHAC =	4.888	BETAC *	.000
LREF =	327.7800 IN			0000 IN.YC				ELY-18 =	.000	ELY-OB =	3.000
BREF =	2349.0400 IN	•		9000 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE =	.0300	• •	_					BETAD =	-5.000	PHI =	7.500
SCALE -	.0200							DX =	.000	DY =	10.000
		RUN NO	. 8147 0	RN/L =	3.24 (	RADIENT INTER	RVAL =	.00/ 12.00			
ALPHA	o DZ	HACH	DX	DY	BETAO	PHS	ALPHAN	BETA	CL	CD	CLH
14.793		60000	39170	10.63030	-4.3442	7.50000	5.88550	01298	.28290	.08270	.21800
14.793		.59970	60470	10.62790	-4.3428	7.5000D	5.87880	01210	.29470	.CB310	.20400
14.785		,59920	87590	10.62870	-4.34291	7.50000	5.87490	02000	.31120	.08470	.17410
14.756		.59950	-1.48020	10.62590	-4.3450	7.50000	5.66050	61430	.35060	.09070	.10490
14.769		.60020	-2.41880	10.65530	-4.3559	7.50000	5.83930	02550	.40260	.09540	.03050
12.103	, ,,,,,,				. 7015	0.00000	E 0207N	- 01910	-43390	.09810	00230

7.50000

7.50000

.00000

-4.36t20

-4.36930

.03018

5.22970

5.82390

-.00159

-.00230

-.02350

-.00637

.09810

.02900

.00029

-.01910

-.00940

~.00106

.43390

.45540

.00407

-3.46380

-4.49070

-.66955

10.66050

10.67110

-.00021

.60020

.59950

-.00012

46.769

61.571

GRADIENT

14,767

DATE BI DEC 75

TABULATED SOURCE DATA - CARD

. . . .

PADE 63

			CVSO	747/1	O1 S1		CARRIER	DATA	(RGN10	43 ( O1 O	EC 75 3
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	500.0090 SQ.F 327.7800 IN. 348.0400 IN.		<b>.</b> .00	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4,000 .000 3,080 -5,090 10,080	9ETAC = ELV-08 = HACH = PHI = DY =	-5.000 3.000 .600 .000
		RUN NO.	630/ 0	RN/L =	3.29	GRADIENT	INTERVAL =	.00.12.00			
ALPHAO 10.325 10.312 10.305 10.313 10.331	0Z -1.343 1.825 6.300 13.960 28.630 43.881 GRADIENT	MACH .60050 .60080 .60070 .60000 .60030 .60040 ~.00002	DX 10.81020 10.60190 10.30090 9.78720 8.77630 7.73970 06726	0Y 2.27280 2.28000 2.29610 2.31560 2.34420 2.34160 .00360	8ET. -5.21 -5.22 -5.23 -5.24 -5.24 00	650 .00 910 .01 500 .01 200 .01 080 .01 020 .01	ALPH 0000 5.825 0000 5.825 0000 5.826 0000 5.807 0000 5.795 0000000	520 -4.95370 540 -4.94680 570 -4.94040 550 -4.94680 760 -4.95590 900 -4.93970	.40790 .41770 .43410 .45780 .47490	.08890 .08880 .09330 .09320 .09360 .09360	CLH .0550B .0674B .04470 .01200 01890 03770 00507
ALPHAO 14.692 14.668 14.657 14.654 14.657 14.663	D2 1.273 4.371 8.918 16.303 31.560 46.389 61.453 GRADIENT	RUN NO MACH .60040 .60010 .50010 .59960 .59910 .59910 .59910	0X 9.46210 9.25780 8.95000 8.44290 7.39910 6.36570 5.36270 06704	RN/L =  OY 2.19680 2.20450 2.24340 2.26540 2.27270 2.25720 .00286	3.27 -5.18 -5.19 -5.19 -5.21 -5.21 -5.21 -5.21	AO PH 1550 .0 1130 .0 1620 .0 1370 .0 150 .0 250 .0 370 .0		HAH BETA 310 -4.94840 960 -4.94840 620 -4.9410 620 -4.9416 267 -4.94610 290 -4.94630 460 -4.94790	.34160 .35550 .38070 .41790 .44320 .45960	CO .07860 .07950 .08300 .08700 .09110 .09220 .09270	CLH .19210 .17950 .14820 .09110 .02750 00420 02390 00593

GRADIENT

.00000

-.13522

			CAZO	747/1	01 51	C	ARRIER DATA	A	(RON10	5) (01.06	C 75 1
	REFERENC	E DATA							PARAHETRIC	DATA	
LREF =	5500.0000 5Q. 327.7800 IN. 948.0400 IN. .0300	YHRP	00	00 (N.XC 00 IN.YC 80 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	8.000 .000 5.000 -5.000	EETAC = ELV-08 = HACH = PHI = OY =	-5.000 3.000 .600 .000
		RUN NO.	841/ 0	RN/L =	3.26 GR	ADIENT INTER	VAL = .	00.51 100			
ALPHAO	DZ	HACH	ΩX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
10.296	-3.049	.60000	9.37130	2.28520	-5.19850	.00000	9.65170	-5.00970	.79020	. 14090	~.09590
10.307	020	.60070	8.97290	2.29580	-5.19890	.30000	9.65150	-5.00360	.78320	. 13878	08090
10.320	4.578	,59940	B.34450	2.32580	-5.21110	.00000	9.65270	-5.00320	.76570	. 13890	02590
10.359	12.050	.59930	7.32250	2.35920	-5.22350	.00000	9.65220	-5.01160	.79360	.13970	05880
10.437	27.168	.59920	5.23740	2.39020	-5.23710	.00000	9.64590	-5.08940	.81080	. 14080	09720
10.469	41.982	.60070	3.20170	2.39690	-5.24060	.00088	9.63980	-4.99480	.62500	. 14230	09820
,515	GRADIENT	.00000	.80000	.00000	.00000	.00000	.00088	.08080	.00800	.00000	.00000
		RUN NO.	83E/ O	RN/L =	3.31 GR	ADIENT INTER	VAL = .	00/ 12.00			
ALPHAO	ΩZ	MACH	DX	DY	BETAD	PHI	ALPHAH	BETA	CL	co	CLH
14.545	709	.60080	7.91490	2.17100	-5.16670	.00000	9.68170	-4.94920	.71310	. 12590	-04110
14.535	2.486	.60040	7.49070	2.19280	-5.17480	.00000	9.68270	-4.94540	.71570	. 12700	.02760
14.550	7.119	.60040	6.8649D	5.55060	-5, 18440	.00000	9.67370	-4.94590	.72760	. 12930	.00170
[4.57]	14.418	.60010	5.87150	2.24480	-5.19520	.00000	9.66760	-4.94090	.745 30	.13210	02850
14.610	29.342	.59920	3,82640	2.27660	-5.20660	.00000	9.66010	-4.94920	.77:40	. 13530	05980
14.638	44.463	.60030	1.75100	2.28750	-5.21020	.00000	9.65230	-4.94820	.79330	.13790	07580
14.650	59.174	.60910	27960	2.28950	-5.21320	.00000	9.64650	-4.94020	.80950	.13990	08540

-.00207

.00601

.00000

-.00194

-.00011

.00257

.00050

-.00560

DATE 01 DEC 75

TABULATED SOURCE DATA - CA20

( D1 DEC 75 \$ CARRIER DATA (RGN106) CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA -5.000 ALPHAC = 4.000 BETAC = 1339.9000 IN.XC XHRP SREF - 5500.0000 SQ.FT. .000 ELY-08 = 3.000 ELV-IB = .0080 IN.YC ሃነነ<del>የ</del>የP 327.7E00 IN. .600 ELEVON = 5.000 HACH ZHRP = 190.8000 IN.ZC BREF = 2348.0400 IN. .000 -5.000 PHI BETAD = SCALE = .0300 10.000 .000 DY DX = GRADIENT INTERVAL = .00/ 12.00 RUN NO. 844/ D PN/L = 3.30 CLH **ALPHAH** BETA CL CD **BETAO** PHI DY HACH ĐΧ ALPHAO DŽ -4.97280 .39050 .09120 .00650 5.84320 .00000 .77820 11.46600 -5.24580 .59920 -,766 10.440 .39510 .09140 .01540 .00000 5.84170 -4.96410 11.45390 -5.23960 .58010 .59970 10.421 2.266 .09220 .01090 -4.95640 .40510 5.83810 -5.23900 .08080 11.45320 .59950 .28450 6.604 10.417 -.00440 .09360 -4.96580 .42490 5.82680 11.46500 -5.24390 .00000 -.22360 .59930 14.060 10.423 -.02590 .09470 5.82110 -4.99170 .45300 .00000 11.49370 -5.25780 -1.26380 29.201 .60099 10.442 .09460 -.03710 -4.98130 .47240 5.81170 .00800 -2.29630 11.50700 -5,26440 .59990 10.451 44.256 -.00104 .00231 .00018 -.00083 .00178 .00014 .00000 -.06815 -.60016 **GRADIENT** -.C0005 ( 01 DEC 75 ) (RGN107) 747/1 01 51 CARRIER DATA CVS0 PARAMETRIC DATA REFERENCE DATA BETAC = -5.000 ALPHAC = 4.000 1339.9000 IN.XC SREF - 5500.0000 SQ.FT. XMRP 3.000 ELV-18 = .000 ELV-08 = YHRP .0000 IN.YC LREF = 327.7800 IN. MACH .600 ELEVON = 5.000 190,8000 IN.ZC BREF = 2348.0400 IN. ZMRP = -5.000 .000 PHI BETAO . .0380 SCALE = 10.000 10.000 DY ΩX .00/ 12.00 RN/L = 3.26 GRADIENT INTERVAL = RUN NO. 819/ B CD CLH CL **ALPHAH** BETA PHI DY BETAD DX HACH **ALPHAO** ĐΖ -.00020 .09040 5.82460 -4.94250 .41660 -5.22040 .00000 12.27000 .60000 10.79930 .10.347 -1.294 -4.94890 .41520 .09010 .01550 .00000 5.82770 -5.21300 12.25380 10.60860 1.624 .59960 10.332 .09110 .01110 .42300 5.82490 -4.94060 12.25660 -5.21390 .00000 10.30320 .59980 6.160 10.329 -.00570 .09260 5.81970 -4.94960 .43750 .00800 12,26900 -5.21790 9.79210 13.665 .59960 10.340 -4.95700 .46120 .09370 -.02580 .00000 5.81120 0.77050 12.29260 -5.22970 .60000 28,609 10.361 -.04030 .09410 .47750 5.80290 -4.94920 -5,23610 .00000 12.30200 7.72830 .59970 10.373 43.844 -.00097 .00022 -.00062 .00007 .00172 -.00020 .00000 .00062 .00084 -.06732 GRADIENT

PAGE 55

.14120

.14120

.14160

. 14290

.14370

.00000

.79130

.78800

.79030

.79560

.81380

.02790

.00051

-.12000

-.10460

-.09920

-.09760

-.09950

-.09900

.00120

12.35040

12.32340

12.31250

12.30890

12.33560

12.34980

-.00242

9.41230

8.99580

8.38130

7.35250

5.25330

3.20560

-.13520

.60020

.68070

.60050

.59910

.59910

.60060

-.08804

-2.748

.382

4.894

12.419

27.611

42.408

GRADIENT

10.102

10.121

10.146

10.164

10.257

10.295

-5.23470

-5.21950

-5.21220

-5.21150

-5.22430

-5.23390

.00162

4/1/4 01 040 1-										
		CAZO	747/1	01 SI	C	ARRIER DATA		(BCN107	73 C Q1 DE	C 75 1
REFERENCE	E DATA							PARAMETRIC	DATA	
	T. XMRP	4 1339.9	080 IN.XC				ALPHAC =	4.000	BETAC .	-5.000
SREF = 5500.0000 SQ.F	YMRP	•	DED IN.YC				ELV-IB =	.000	ELV-08 =	3.000
LREF = 327.7800 IN. BREF = 2348.0400 IN.	ZHRP		080 IN.ZC				ELEVON =	5.000	HACH =	.608
OREF = 2340.0400 IN. SCALE = .0300	<b>4184</b>	- 13016					BETAO =	-5.000	PH1 =	.000
SUALEUSUD							6× =	10.000	DY =	10.000
	RUN NO.	820/ 0	RN/L =	3 Sa G	RADIENT INTER	RVAL = .C	12.00			
ALPHAO DZ	HACH	ĐХ	Sir	BETAO	PHI	ALPHAH	BETA	CI.	æ	CLH
14.674 2.198	.59990	9.40153	12.14780	-5.18880	.08000	5.84790	-4.94690	.35920	.08020	. 10290
14.656 5.136	.59950	5.20680	12.15380	-5.18230	.00000	5.84880	-4.94700	.35780	.08130	.11920
19.650 9.779	.59923	0.69000	12.15850	-5.18330	.08080	5.89540	-4.94090	.36770	.08530	-10140
14.655 17.264	60090	8.38210	12,17450	-5.18990	.00000	5.83750	-4.94980	.3B940	.08800	.05530
14.656 32.135	.60020	7.36720	12.19480	-5.20170	.00000	5.02280	-4.94830	.42450	.09190	.01640
14.669 47.232	.59990	6.32930	12.21060	-5.20820	.00000	5.81630	-4.95250	.44780	.09310	00710
14.671 62.086	.60090	5.31660	12.22610	-5.21690	.00000	5.80290	-4.94930	.46510	.09350	02700
GRADIENT	-,00009	08755	.09138	.03054	.00800	80037	.00084	.00121	.00069	+.00053
		CASO	747/1	01 51	•	CARRIER DATA		(RGN10	B) ( 01 D)	C 75 )
REFERENCE	E DATA							PARAHETRIC	DATA	
SREF = 5500,0000 50.8	FT. XMRP	= 1339.9	OBD IN.XC				ALPHAC =	8.000	BETAC =	-5.000
	TI. ALAW YHRP		DOD IN.YC				ELV-1B =	.000	ELV-OB =	3.000
LREF = 327.7800 IN. BREF = 2349.0400 IN.	ZMRP		000 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE = .0270	4,,,,		•••				BETAO =	-5.000	* 1H9	.000
SEALEG.70							0x -	10.000	DX =	10.000
	RUN NO.	. 0/0	RN/L =	3.24 6	RADIENT INTE	RVAL = .	09/ 12.00			
ALPHAO DZ	HACH	ρχ	DY	BETAO	PHI	HAHQJA	BETA -ti OCOMO	CL 79130	CD 14270	CLH - 12000

9,67100

9.67210

9.67360

9.66850

9.66320

9.65050

.00033

.00000

.00000

.00800

.00800

.00000

.00000

.00000

-4.96940

-4.96600

-4.96550

-4.95820

-4 97280

-4.95480

PAGE 87 TABULATED SOURCE DATA - CA20 DATE OI DEC 75 (RGN108) 1 01 DEC 75 1 CARRIER DATA CYSO 747/1 01 51 PARAMETRIC DATA REFERENCE DATA -5.000 ALPHAC = 8.000 BETAC = 1339.9000 IN.XC XMRP ■ 5500.0000 SQ.FT. .000 ELV-08 = 3.000 ELV-IB . YMRP .0000 IN.YC 327.7800 IN. .600 ELEVON = 5.000 HACH 190.8000 IN.ZC ZHRP BREF . 2348.0400 IN. BETAO \* -5.080 PHI .000 .0300 SCALE -10.000 10.000 DY DX GRADIENT INTERVAL = .00/ 12.00 0/ 0 RN/L = 3.24 RUN NO. CO CLH ALPHAH BETA BETAO PHI DY MACH DX **ALPHAO** DŻ .12880 -.00450 .71350 -4.94B40 .00000 9.70100 7.87850 12.21900 -5.19280 -.426 .59900 14.529 .13000 -.00760 .71780 .00000 9.69960 -4.94880 12.21350 -5.18440 .60000 7,47560 14.532 2.587 -.02110 .72810 .13120 -4.94130 .00000 9.69590 -5.18130 6.84400 12.20290 .59950 14.546 7.236 -.04310 .74580 .13460 9.68990 -4.94590 12.20650 -5.18370 .00000 5.81640 14.804 .59940 14.574 .13800 -.06020 -4.95430 .77340 9.68030 12.23240 -5.19730 .00000 29.610 .60010 3.77810 14.612 -.07630 .79500 .14000 -4.94390 .00000 9.67240 1.70940 12.24440 -5.20570 .59980 44.620 14.63B -.08310 .14150 .81120 9.66660 -4.94210 12.25690 -5.21300 .00000 -.31800 .60050 59.279 14.647 .00161 .00222 .00026 -.00290 -.00080 -.00228 .00067 .00000 -.0001 k -.13586 GRADIENT (RGN109) t 01 DEC 75 1 CARRIER DATA 747/| 01 51 CARD PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 4.000 BETAC = 1339.9000 IN.XC XHRP = 5500.0000 SQ.FT. ELV-08 = 3.000 ELV-IB \* .000 .0000 IN.YC 327.7800 IN. YHRP LREF .600 HACH ELEVON = 5.000 190.8000 IN.ZC ZMRP 2348.0400 IN. BREF -.000 BETAO \* -5.000 PHI SCALE = .0300 10.000 DY .000 ĐΧ GRADIENT INTERVAL = .00/ 12.00 3.27 RN/L = RUN NO. 8317 0 CLH BETA CL CD PHI **ALPHAH** BETAO DY MACH OΧ ALPHAO ĐΖ .06840 5.82770 .01750 .40300 .09280 .00000 -5.24010 .35760 .59950 10.83660 10.322 -1.388 .09408 .07140 .01740 .40430 .00000 5.82730 .35120 -5.23680 10.63220 1.603 .59900 10.306 .05220 .09580 .41490 .00000 5.82560 .01920 .35200 -5.23390 10.32610 .59980 10.302 6.139 .01730 .02270 .43280 .09760 .00000 5.81850 .35410 -5,23360 9.60690 13.778 .60010 10.313 .09890 -.02030 .45990 5.80B30 .02410 .36250 -5.23920 ,00000

5.80220

-.00037

.00000

.00000

-5.23659

.00050

.36160

.0001B

.02420

.00040

.47650

.00234

-.03980

-.00423

.09940

.00040

8.78170

7,76010

-.06747

.50010

.59970

.00018

28.819

43.741

GRADIENT

10.332

GRADIENT

CARRIER DATA

(90N109) 4 81 DEC 75 1

PARAMETRIC DATA

REFERENCE SREF = 5500.0000 SQ.F LREF = 327.7800 IN.	T. XMRP YMRP	-	IN.YC			ALPHAC ELV-19 ELEVON	.000 . 5.000	ELA-08	*	.000 2000.E 000
BREF = 2348.0400 IN. SCALE = .0380	ZHRP	- 150.8000	IN.ZC			DX DX	5.000 - 10.000	PH l DY	•	.000
	0.01.110	nama n 'F	HV/I =	3.28	GRADIENT INTERVAL =	.00/ 12.00	)			

		RUN NU	. 8377 0	1 11 4 2 1							
ALPHAO 14.694 14.678 14.659 14.660 14.656 14.662 14.663	0Z .92B 3.997 8.486 16.091 31.106 46.023 60.943 GRADIENT	MACH .60020 .60080 .60030 .60010 .69990 .60010	DX 9.50130 9.29690 8.99590 8.47870 7.44890 6.42710 5.41320 06689	DY .34230 .34420 .35420 .35490 .37940 .35910 .00121	BETAO -5.20390 -5.20390 -5.20340 -5.20800 -5.20940 -5.21050	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.85520 5.85320 5.84700 5.83780 5.82070 5.81320 5.80510 00111	8ETA .04520 .04700 .04140 .05340 .05560 .05490 .06210 -,00056	CL .32980 .33500 .35110 .38060 .41970 .44650 .46250 .00287	C9 .08070 .09260 .09680 .09170 .09580 .09730 .09800 .00082	CLH .21050 .19870 .16320 .09810 .02930 00300 02300

CA20	747/1	01 SI	CARRIER DATA	(RGN110)	( 01 DEC 75 3

		PARAHETRIC DATA
REFERENCE DATA		

LREF =	5500.0000 327.7800 2348.0400	IN.	XHRP YHRP ZHRP	*	0009.9255 0009. 0009.091	IN.YC	ALPHAC ELY-18 ELEVON BETAO OX	-	8.000 .000 5.000 -5.000	BETAC ELV-08 HACH PHI DY	# # # # # # # # # # # # # # # # # # #	000. 000. 000. 000.
SCALE -	.0000						•/-					

		RUN NO.	840/ G	RN/L =	3.28 GRAD	IENT INTER	VAL00	/ 12.00			
ALPHAO 10.304 10.305 10.328 10.360 10.425	DZ -3.602 075 4.516 12.075 26.946 42.070 GRADIENT	MACH .60080 .59930 .59980 .59940 .60080	0X 9.37460 8.98600 9.36210 7.33520 5.29150 3.20180	DY .38610 .36130 .34360 .33740 .34810 .35070	BETAO -5.26550 -5.24900 -5.23670 -5.23350 -5.23780 -5.23790	PH1 .60000 .00000 .00000 .00000 .00000	ALPHAH 9.65720 9.65830 9.65690 9.64850 9.64510 9.64320	8ETA .05380 .05400 .05260 .06410 .06470 .06490	CL .78380 .78070 .78460 .79520 .81150 .82360	.14600 .14600 .14520 .14550 .14610 .14760 .14940	CLH 09630 07390 07409 08050 08340 08299 .00000

The control of the second of

DATE OI DEC	: 75	TABULAT	ED SOURCE D	IATA - CA20	)					PAGE	69
DAIL OF DEC	, .5		CA20	747/1 (	DI 51	C	ARRIER DATA		(RGN110	) COLDEC	75 )
	05505165	0.71	-						PARAMETRIC	DATA	
	REFERENCE	UAIA						ALPHAC =	8.660	BETAC -	.000
SREF = 5	500.0000 SQ.FT	XMRP	+ 1339.900					ELV-18 *	.000	ELY-08 .	3.000
	327.7800 IN.	AH455		IN YC				ELEVON =	5.000	HACH =	.600
	348.0400 IN.	ZHRP	= 190.800	IN.ZC				BETAO =	-5.000	PHI =	.000
SCALE =	.0300							DX =	10.000	DY -	.008
		RUN NO.	837/ O	RN/L =	3.29 GRA	DIENT INTER	O. = JAVI	o/ (2.00			
			DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
ALPHAO	DZ	HACH	8.18810	.38570	-5.22010	.00000	9.68140	.00420	.71220	. 13240	.04040
14.301	-2.363	.59980	7.96770	.38570	-5.21720	.00000	9.69610	.08410	.71190	.13230	.04150
14.539	-1.012	.60010	7.59820	.37440	-5.21070	.00000	9.68190	.00420	.71740	.13380	.03510 .03400
14.492	1.816	.60080 .60086	7.55200	.37380	-5.21060	.00000	9.68180	.06420	.71770	. 13390	.01060
14.537	2.114	.60090	6.95140	.36650	-5.20600	.00000	9.67480	.91540	.72970	.13570	02080
14.547	6.572	.59990	5.93050	.36460	-5.20440	.00000	9.67030	.01810	.74710	.13800	05240
14.576	14.073	.60010	3.86470	.37730	-5.20900	.00800	9.66010	.01160	.77500	.14130	05420
14.612	29.194	.60850	1.79770	.37490	-5.20970	.00886	9.65280	.01810	.79628	.14430	07249
14.641	44.237 58. <del>9</del> 32	.69980	22740	.37670	-5.21130	.00000	9.64550	.01740	.810BD	.14650 .08840	86519
14.651	GRADIENT	.00010	13545	00165	.00101	.00000	00153	.00242	.00263	.00040	005.5
			CY50	747/1	01 SI		CARRIER DATA	<b>L</b>	(RGN1)	iti corpe	C 75 )
									PARAMETRI	: DATA	
	REFERENCE	DATA									
				או מסנ.XC				ALPHAC =	4.000	BETAC =	.000
SREF = 1	5500.0000 SQ.F	T. XHRP		000 IN.YC				ELV-IB =	.000	ELV-OB -	3.000
LREF #	327.7880 IN.	YMRP		000 IN.ZC				ELEVON =	5.000	HACH =	.600
621	2348.0400 IN.	ZMRP	<b>■ 190.8</b>	JUS 111.20				BETAO =	-5.080	PHI =	.000
SCALE =	.0300							DX =	.000	DY =	10.000
		RUN NO	843/ 0	RN/L =	3.33 GF	RADIENT INTI	ERVAL = .	00/ 12.00			
		••					41 OP 111	BETA	CL	CD	CLH
ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH 5.84880	.06030	.37410		.09680
10.446	843	.60040	.80518	10.38400	-5.24130	.00000	5.84800	.05820	.38310		.08190
10.429	2.180	.59950	.59930	10.39070	-5.23930	.00000	5.64290	.06270	. 39750		.0581 <b>0</b>
10.422	6.658	.59940	.29520	10.38630	-5.23920	.00000		.05110	42850		.02160
10.430	14.218	.59930	22540	10.38990	-5.24230	00000		.05830	.45290		01670
10,443	29.284	.68070	-1.25240	10.40340	-5.25400	00000. 00000.		.05180	.47328		03570
10.450	44.293	.60010	-2.28200	10.41680	-5.26110			.00100			00532
*******	GRADIENT	00002	06791	00098	.00002	.00000					

CARD 747/1 01 SI

CARRIER DATA

(RGN112) ( 01 DEC 75 )

~~~	L LOCK	DATA

SREF	a	5500.0000	SQ.FT.	XHRP	=	1339.9888	IN.XC	
		327.7800		YHRP		.0000	IN.YC	
BREF		2348.0400	IN.	ZHRP	*	190,8000	IN.ZC	
SCALE	-	.0300						

### PARAMETRIC DATA

REF =	5900.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300	T. XHRP YHRP ZHRP		8090 IN.XC 8080 IN.YC 8080 IN.ZC				ALPHAC = ELV-IB = ELEVON = ESTAO = OX =	4,000 .000 5,000 -5,000 to.000	BETAC = ELV-08 = HACH = PHI = BY =	.000 3.000 .600 .000
		RUN NO	. 818/ D	RN/L =	3.27 GRA	DIENT INTER	VAL0	0/ 12.00			
ALPHA0 10.351 10.339 10.338 10.344 10.363 10.379	DZ -1.302 1.671 6.235 13.633 28.774 43.866 GRADIENT	MACH .59940 .60090 .60090 .60080 .60080 .60080	DX 10.82050 10.62210 10.31230 9.81000 8.77700 7.73840 06788	DY 10.31730 10.32040 10.31910 10.31680 10.32690 00028	9ETAO -5.21620 -5.21550 -5.21570 -5.22650 -5.23270 00002	PHI .00088 .00080 .00888 .00800 .00000 .00000	ALPHAH 5.83140 5.83320 5.82900 5.82270 5.81020 00092	BETA .07500 .07410 .07090 .06730 .06750 00070	CŁ .40350 .40540 .41730 .43470 .46220 .47890	.09390 .09390 .09440 .09580 .09700 .09880 .09930 .00031	CLH .07920 .08120 .05590 .02140 01840 03880 00554
ALPHA0 14.674 14.654 14.654 14.662 14.672 14.669	DZ 1.871 4.908 9.491 16.765 31.645 46.937 61.691 GRADIENT	HACH .59920 .60040 .59950 .60000 .59930 .59980 .59950	DX 9.44540 9.24120 6.92720 6.43190 7.40100 6.35530 5.35330 06984	DY 10.32750 10.33400 10.34080 10.34180 10.36500 10.36580 10.37880 .00172	BETAO -5.18870 -5.18670 -5.18670 -5.18990 -5.20490 -5.21170	00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.85880 5.85820 5.85220 5.84220 5.82760 5.81740 6.80840 00890	BETA .03760 .03530 .01460 .01970 .00710 .01960 .02660	CL .32970 .33810 .35510 .38190 .42210 .44500 .46680	CO .08200 .08430 .08800 .09150 .09530 .09720 .08800 .80079	CLH .22160 .20060 .16010 .09730 .02780 00240 02470 00813

DATE OF DE	C 75	TABULA	TED SOURCE	DATA - CA	<del>5</del> 0					PAC	Æ 71
			CA20	747/1	01 EI		CARRIER DAT	A	(RGN11	31 (0106	C 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
oost t	500.0000 <b>5</b> Q.F	T. XMRP	- 1339.9	000 IN.XC				ALPHAC .	8.000	BETAC =	.000
	300.0000 SQ.F 327.7800 IN.	YHRP		ODO IN.YC			•	EL4-18 =	.000	ELV-08 =	3.000
	348.0400 IN.	ZHRP		000 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE =	.0300	4						BETA0 =	-5.000	PHI =	.000
STAFE -	.0200							DX =	.000	DA a	10.000
		RUN NO.	846/ 0	RN/L =	3.27	GRADIENT INT	ERVAL .	00/ 12.00			
ALPHAO	DZ	MACH	DΧ	ÐY -	BETAC	) PHI	ALPHAH	BETA	a.	CD	CLH
14.683	234		-2.08110	10.45250	-5.2298	.00000	9.71210	. 05500	.67880	.12950	.05430
14.664	2.631		-2.49430	10.44140	-5.2228	00000.	9.70900	. 05080	.68300	.13890	.03410
14.673	7.169	.59980	-3.08220	10.42750	-5.2191	00000.	9.70290	.05560	.70530	. 13290	.00570
14.695	14.825	.60010	-4.12640	10.41340	-5.2170	00000.	9,69360	.04350	.73160	.13600	03120
14.718	29.884	.59910	-6.18250	10.41430	-5.2239	00000. 06		.04930	.76680	.14050	06450
14.736	44.793	.60010	-8.24790	10.42500	-5.2308	00000.		.05230	.79230	. 14410	07370
14.745	59.569		10.29910	10.44120	-5.2402	00000.	9.66970	.05370	.80850	.14670	07890
	GRADIENT	.00009	13553	00320	.0008	35 .00000	05141	.00111	.00359	.00844	00655
			CYSO	747/1	01 51		CARRIER DAT	FA.	(RGN1)	143 ( 01 0	EC 75 1
	REFERENCE	DATA							PARAHETRIC	DATA	
cocc . E	500.0000 SQ.F	T. XHRP	<b>=</b> 1339.9	OOB IN.XC				ALPHAC =	8.000	BETAC =	.000
	327.7800 IN.	YHRP		000 IN.YC				ELV-18 =	.000	ELV-OB =	3.000
	348.0400 IN.	ZHRP		000 IN.2C				ELEVON =	5.000	HACH =	.600
SCALE *	.0300	<b>4</b> 1 - 41	,,,,,					BETAO =	-5.000	PH1 =	.000
SCALE -	,0300							DX *	10.000	DY =	10.600
		RUN NO.	. 627/ 0	RN/L =	3.23	GRADIENT IN	IERVAL =	.00/ 12.00			
ALPHAO	DZ	HACH	DX	ÐY	BETA	O PHI	ALPHAH	BETA	CL	CD	CLH
10.123	-2.709	.59950	9.42810	10.35950	-5.226		9.67390	. 08450	.78719	.14710	06170
10.123	.522	.59900	8.99410	10.33760	-5,221		9.67420	.09590	.76660	. 14650	06190
10.153	4.892	.59920	8.39770	10.32390	-5.217	40 .0000		.09450	.79020	. 14640	06800
10.189	12.431	.60030	7.36470	10.32290	-5.216			.07600	.80050	. 14690	07740
10.262	27.432	.59980	5.29070	10.32470	-5.223	90 .6000			.81530		08290
10.293	42.263	.60050	3.24330	10.33450	-5.232	0000.00			.02750		08250
	GRADIENT	.00005	13678	00314	.001	0000.	0 .00025	00055	.00883	00002	00140

DATE OF BEC 75	TABULA	ATED SOURCE DATA -	CV59						
		CA20 747/1	01 S1	c	ARRIER DATA		(RGN11	41 4 01 DE	C 75 )
RE	FERENCE DATA						PARAHETRIC	DATA	
			_			ALPHAC =	8.000	BETAC =	.000
	100 SQ.FT. XHAP					ELV-IB -	.000	ELV-08 =	3.000
•	DO IN. YHRP			-		ELEVON =	5.000	MACH =	.600
BREF = 2348.0	90 1112	= 190.6000 IN.2	L			SETAD =	-5.000	PHI =	-000
SCALE = .03	30 <b>0</b>					DX -	10.000	DY =	10.000
	RUN NO	. 624/ 0 RN/L :	3.23 GF	RADIENT INTER	RVAL = .0	12.00			
ALPHAD DZ	насн	DX DY	BETAO	PH1	ALPHAH	BETA	CL.	co	CLH
	449 .59930	7.89880 10.386		.00000	9.70270	.02410	.71400	. 13320	.06100
,	724 .59390	7.47220 10.3724		.00000	9.69910	.03500	.71880	.13440	.04946
****	181 .59920	6.86660 10.3620	D -5.18910	.08080	9.69690	.02350	.73120	.13570	.01800
•	.60030	5.85320 10.355	0 -5.16960	.00000	9,69780	.01980	.75030	.13800	01760
,	.549 .59300	3.80340 10.355	10 -5.19530	.00000	9.87940	.01950	.77980	.14190	0560 <b>0</b> 06 <b>5</b> 70
	.69080	1.72210 10.369		.00000	9.67220	.02160	.79990	. 14500 . 14740	07360
	.59920	31530 10.3769		.00000	9.66720	.02260	.8139D .0027B	.00740	07365 08 <b>705</b>
GRAD	ENT00013	13588002	£8000. £3	.00000	08049	00259	.00278	.00000	
		CA20 747/	01 51		CARRIER DAT	<b>A</b>	(RGN1 1	(5) ( 01 D	C 75 )
R	FERENCE DATA						PARAMETRIC	DATA	
•								BETAC =	5.000
SREF = 5500.0	OOD SOLFT. XHRP					ALPHAC = ELV-IB =	4.000 .080	ELV-08 =	3.000
LREF - 327.7	BOD IN. YHRP					ELEVON =	5,000	HACH =	.600
GREF = 2348.0	100 IN. ZMRP	. 190.8000 lN.	ZC			BETAO =	-5.000	PHI =	.000
SCALE = .0	300					DX =	10.000	DY =	.000
						UA	10,000	•	
	RUN NO	). 832/ 0 RN/L	<b>3.26</b> 6	RADIENT INTE	RVAL = .	00/ 12.00			
ALPHAO DZ	HACH	YO XO	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
	.459 .59910	10.80560 -1.588		.00000	5.82090	5.05090	.43050	.0B83 <b>0</b>	02278
.01220	.677 .59950	10.60980 -1.603			5.82130	5.04970	.42990	.08910	01600
,0,5,0	.511 .03550	10 70360 +1.621		.00000	5.81960	5.05130	.43450	.09100	01900

.00000

.00000

.00000

.00000

-1.62150

-1.63320

-1.63910

-1.64140

-.00391

.60020

.60050

.69990

.60030

.00015

6.160

13.701

28.714

43.608

GRADIENT

10.308

10.316

10.331

10.344

10.30360

9.79660

8.77550

7.74110

-.06692

-5.24600

-5.23490

-5.23590

-5.23430

.00127

5.81300

5.80800

5,80240

-.08937

5.04780

5.05230

5.04990

.00035

-.02520

-.03410

-.04650

-.00055

.09310

.09450

.09470

.00091

.44570

.46490

.48100



DATE OI DEC 75

TABULATED SOURCE DATA - CA20

PAGE 73

			CVSO	747/1	01 51	CY	RRIER DATA		(RGN) 15	1 (01.060	75 )
								1	PARAHETRIC :	DATA	
SREF = 5500. LREF = 327. BREF = 2348.	REFERENCE 0000 SQ.FT 7800 IN. 6400 IN.	· XHRP YHRP	<b>.</b> .0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAD =	.000 5.000 -5.000	BETAC = ELV-OB = HACH = PHI =	5.000 3.000 .600 .000
SCALE	0300							DX =	10.000	OY -	.000
		RUN NO.	833/ 0	RN/L =	3.28 GR	LOIENT INTERV	/AL = .0	0/ 12.00			
ALPHAO D	Z	HACH	DX	DY	BETAO	PHI	ALPHAH	8ETA 5.03250	CL .37440	CD .08030	CLH .05418
14.703	.481	.59990	9.50420	-1.51150	-5.21160 -5.21110	.00000 00000	5.83950 5.84040	5.03840	.37270	.08120	.07150
	3.583	.59940	9.30230	-1.49580 -1.51040	-5.21110	.00000	5.84090	5.04940	.37730	.08380	.06960
	7.765	.60009 .60050	9.82180 8.4864 <b>0</b>	-1.51760	-5.20820	.00000	5.83410	5.04880	.39420	.08930	.04600
	15.725 30.510	.59960	7.48880	-1.52620	-5.20760	.00000	5.02210	5.06330	.42570	.09210	.01110
	5.572	.59900	6.45060	-1.52710	-5.20570	.00000	5.01350	5.04380	.45030	.09300 .09330	01340 03160
	0.497	.59980	5.42690	-1.53350	-5.20880	.00000	5.80710	5.05660 .00234	.46840 .00044	.00049	.00069
	DIENT	.00002	06628	00005	.00018	.00000	.00019	.00234	,00011	1000.0	
			CAZ	747/1	01 51	С	ARRIER DATA		(RGN) 1	6) (O) DE	C 75 1
		DITA							PARAHETRIC	DATA	
	REFERENCE	DATA									£ 000
GRFF = 5580				9000 IN.XC				ALPHAC =	8,000	BETAC -	5.000 3.000
	REFERENCE .0000 SQ.F .7800 IN.			0000 IN.YC				ELY-18 =	.000 000.8	BETAC = ELV-08 =	5.000 3.000 .600
LREF = 327	.0080 SQ.F	T. XMRP						ELV-18 =	8.000 .000 5.000	BETAC = ELV-08 =	3.000
LREF = 327 BREF = 2348	.0080 SQ.F .7800 IN.	T. XMRP YMRP		0000 IN.YC				ELEVON =	.000 000.8	BETAC = ELV-OB = HACH =	3.000 .60D
LREF = 327 BREF = 2348	.0080 SQ.F .7800 IN. .8400 IN.	T. XMRP YMRP		0000 IN.YC				ELY-18 = ELEVON = BETAO =	8.000 .000 5.000 -5.000	BETAC = ELY-08 = HACH = PH1 =	3.000 .60D .000
LREF = 327 BREF = 2348	.0080 SQ.F .7800 IN. .8400 IN.	T. XMRP YMRP	* 190.	0000 IN.YC	3.26 G	RADIENT INTER	IVAL = .	ELY-18 = ELEVON = BETAO =	8.000 .000 5.000 -5.000	BETAC = ELY-08 = HACH = PH1 =	3.000 .60D .000
LREF = 327 BREF = 2348 SCALE =	.0080 SQ.F .7800 IN. .8400 IN. .0380	T. XMRP YMRP ZMRP RUN NO	• 190. • 190.	0000 1N.YC 8000 IN.ZC RN/L =		RADIENT INTER	AVAL =	ELY-18 = ELEYON = BETAO = DX =	8.000 .000 5.000 -5.000 10.000	BETAC = ELY-OB = MACH = PH1 = DY =	3.000 .500 .000 .000
LREF = 327 BREF = 2348 SCALE =	.0000 SQ.F .7800 IN. .0400 IN. .0300	T. XMRP YMRP ZMRP RUN NO	. 190. . 839/ 0	0000 IN.YC 9000 IN.ZC	BETAO		ALPHAI 9.65420	ELV-18 = ELEVON = BETAO = DX =  BO/ 12.00  BETA 5.05110	8.000 .000 5.000 -5.000 10.000	BETAC = ELY-OB = HACH = PH1 = DY =	3.000 .500 .000 .000
LREF = 327 BREF = 2348 SCALE = ALPHAO 10.294	.0000 SQ.F .7800 IN. .0400 IN. .0300	T. XMRP YMRP ZMRP RUN NO MACH ,59960	• 190. • 190.	0000 1N.YC 8000 IN.ZC RN/L = DY	BETA0 -5.28470 -5.27000	PH1 .00000 ,00000	ALPHAH 9.65420 9.65590	ELV-18 = ELEVON = BETAO = DX = BO/ 12.00 BETA 5.05110 5.04940	8.000 .000 5.000 -5.000 10.000 CL .79478	BETAC = ELY-OB = HACH = PH1 = DY = CD .14360 .14240	3.000 .500 .000 .000 .000 CLH 14550 13120
LREF = 327 BREF = 2348 SCALE = ALPHAO 10.294 10.306	.0000 SQ.F .7800 IN. .0400 IN. .0300	T. XMRP YMRP ZMRP RUN NO	. 190. . 839/ 0 . 0X 9.31160	0000 1N.YC 9000 1N.ZC RN/L = DY -1.55000 -1.61720	BETAO -5.28470 -5.27000 -5.25970	PHI .00000 .00000	ALPHAH 9.65420 9.65590 9.65370	ELV-18 = ELEVON = BETAO = DX =  BO/ 12.00  BETA 5.05110 5.04940 5.05760	8.000 .000 5.000 -5.000 10.000 CL .79470 .79090	BETAC = ELY-OB = HACH = PH1 = DY =  CD .14360 .14240	3.000 .500 .000 .000 .000
LREF = 327 BREF = 2348 SCALE = ALPHAO 10.294	.0000 SQ.F .7800 IN. .0400 IN. .0300 DZ -2.738	T. XMRP YMRP ZMRP RUN NO HACH .59960	* 190. 839/ 0 0x 9.31160 8.90260 8.53200 7.27900	0000 IN.YC 9000 IN.ZC RN/L = 0Y -1.55500 -1.59040 -1.64760	BETAO -5.25470 -5.27000 -5.25970	PH1 .00000 .00000 .00000	ALPHAH 9.65420 9.65590 9.65370 9.65120	ELV-18 = ELEVON = BETAO = DX =  BO/ 12.00  BETA 5.05110 5.04940 5.05760 5.04550	8.000 .000 5.000 -5.000 10.000 CL .79470 .79090 .79070	BETAC = ELV-OB = HACH = PH1 = DY =  CD .14360 .14240 .14400	3.000 .500 .000 .000 .000 CLH 14550 13120
LREF = 327 BREF = 2348 SCALE = ALPHAO 10.294 10.306 10.320 10.367 10.428	.0000 SQ.F7800 IN0400 IN0300  DZ -2.738 .352 3.090 12.333 27.414	T. XMRP YMRP ZMRP  RUN NO  MACH .59980 .60000 .59990 .60060	* 190. 839/ 0 0x 9.31160 8.90260 8.53200 7.27900 5.21140	RN/L =  OY  -1.55509 -1.61720 -1.64760 -1.66970	BETAO -5.28470 -5.27000 -5.25970 -5.24150 -5.23730	PH1 .00000 .00000 .00000 .00000	ALPHAH 9.65420 9.65590 9.65370 9.65120 9.64660	ELV-18 = ELEVON = BETAO = DX =  BO/ 12.00  BETA 5.05110 5.04940 5.05760	8.000 .000 5.000 -5.000 10.000 CL .79470 .79090	BETAC = ELY-OB = HACH = PH1 = DY =  CD .14360 .14240	3.000 .500 .000 .000 .000 CLH 14550 13120 12510 11900
LREF = 327 BREF = 2348 SCALE = ALPHAO 10.294 10.306 10.320 10.367 10.428 10.473	.0000 SQ.F .7800 IN. .0400 IN. .0300 DZ -2.738 .352 3.098 12.333	T. XMRP YMRP ZMRP RUN NO HACH .59980 .60000 .59990	* 190. 839/ 0 0x 9.31160 8.90260 8.53200 7.27900	0000 IN.YC 9000 IN.ZC RN/L = 0Y -1.55500 -1.59040 -1.64760	BETAO -5.28470 -5.27000 -5.25970 -5.24150 -5.23730 -5.23650	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 9.65420 9.65590 9.65370 9.65120	ELV-18 = ELEVON = BETAO = DX =  BETA	8.000 .000 5.000 -5.000 10.000 CL .79478 .79090 .79070 .79750	BETAC = ELY-OB = MACH = PH1 = DY = CD .14360 .14240 .1420 .1450	3.000 .500 .000 .000 .000 CLH 14550 13120 12510 11900

			CA20	747/1	01 51	C	ARRIER DATA	•	(RGN) I	6) (0) 06	C 75 1
	REFEREN	CE DATA							PARAMETRIC	DATA	
SREF = LREF = BREF = SCALE =	5500.0000 50 327.7800 IN 2348.0400 IN .0300	. YHRP	00	80 IN.XC 90 IN.YC 90 IN.ZC				ALPHAC = ELEVON = BETAO = DX =	8.000 .000 5.000 -5.000	BETAC = ELV-OB = MACH = PHI = DY =	5.600 3.000 .600 .000
		RUN NO.	838/ 0	RN/L =	3.26 GRA	DIENT INTER	VAL = .8	0/ 12.00			
ALPHAC 14.539 14.540 14.553 14.577 14.613 14.640 14.651	DZ -1.194 1.941 6.274 13.736 28.832 43.865 58.746 GRADJENT	MACH .59960 .59950 .59940 .59950 .59960 .60040 .60080	7.54570 6.96660 5.96710 3.90080 1.83390	DY -1.44850 -1.48380 -1.51170 -1.55280 -1.56208 -1.57120 -1.5745000644	BETAO -5.24490 -5.23400 -5.2180 -5.2180 -5.20960 -5.20720 -5.20980	PHI .00008 .00009 .00009 .00000 .00000 .00000	ALPHAN 9.67820 9.67820 9.67420 9.67180 9.65040 9.65590 9.64970 00088	BETA 5.04490 5.04450 5.04780 5.06930 5.05950 5.06190 5.06760	CL .73020 .73080 .73450 .74600 .77080 .79140 .80940	CD .13060 .13110 .13280 .13580 .13990 .14180 .14370	CLH 04930 05130 05330 06220 07250 08610 09950 00046
			CYSS	747/1	01 SI	c	ARRIER DATA		(RGNI I	7) (01 DE	C 75 1
	REFEREN	CE DATA							PARAHETRIC	DATA	
SREF = LREF = BREF = SCALE =	5500.0080 50 327.7800 IN 2348.0400 IN .0300	YMRP	00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 .000 5.000 -5.000	BETAC = ELV-08 = MACH = PHI = BY =	5.000 3.000 .500 .000 10.000
		RUN NO.	845/ 0	RN/L =	3.29 GRA	DIENT INTER	VALB	12.60			
ALPHA( 10.498 10.467 10.441 10.439	0 OZ 906 2.237 6.513 14.233	MACH .60040 .59980 .59920 .60090	0X .78870 .57730 .28940 23340	DY 9.22240 9.22990 9.23900	BETAO -5.21280 -5.22340 -5.23010 -5.23900	PHI .00000 .00000 .00000	ALPHAH 5.84530 5.84150 5.84000 5.82980	BETA 5.04420 5.04890 5.05350 5.03800 5.03760	CL .39620 .46070 .41180 .43280 .45970	.08930 .08930 .09020 .09100 .09300	CLH .07070 .06100 .04550 .00780 02800

75 PAGE TABULATED SOURCE DATA - CA20 DATE 01 DEC 75 (RSN118) ( 01 DEC 75 ) CARRIER DATA CA20 747/1 OI SI PARAMETRIC DATA REFERENCE DATA 5.000 4.000 BETAC -ALPHAC = XMRP = 1339.8000 IN.XC 5500.0000 SQ.FT. 3.000 SREF . ELY-08 = .000 ELV-IB = YMRP = .0000 IN.YC 327.7808 IN. LREF .600 6.000 HACH ELEVON = 190.8000 IN.20 ZHRP = 2348.0400 IN. BREF = .000 PHI BETAO = -5.000 .0300 SCALE = 10.000 10.080 DΥ ĐΧ GRADIENT INTERVAL . .00/ 12.00 3.28 RN/L = RUN NO. 817/ 0 CLH CD BETA CL ALPHAH PHI DATES DΧ DY DZ HACH ALPHAD .08980 .04860 .42448 5.82810 5.09010 -5.19708 .00000 10.80859 8.27130 .60050 -1.420 10.387 .09800 .04780 .42310 .00000 5.83120 5.07890 8.27890 -5.20120 .59990 10.60430 10.368 1.603 .03370 .09040 .43020 5.82650 5.09080 -5.20600 .00000 8.27540 .59950 10.29750 6.192 10.354 .09260 .00100 .44500 5.09370 5.82320 -5.21310 .00000 8.28270 9.79330 13.627 ,60060 ...03240 10.352 .09360 .46690 5.81190 5.09340 .00000 0.29080 -5,22320 .60000 8.75340 28.854 18.368 -.04630 .48380 .09400 5.08390 5.00650 .00000 8.29670 -5.22860 7.72900 .59950 43.802 10.375 -.00307 .00009 .00255 .00155 -.00102 .00000 -.00105 -.00076 -.00007 -.06685 **GRADIENT** 00.SI \00. GRADIENT INTERVAL . RN/L = 3.25 RUN NO. 822/ 0 CLH CD BETA CL ALPHAN PHI BETAO DX ΟY HACH ĐΖ **ALPHAO** .18650 .07570 .35640 5.08930 5.85110 -5.17810 .08080 9.42000 8.37420 .59970 1.874 14.717 .18250 .07850 .35540 .00000 5.85190 5.09400 8.37710 -5.17940 4.769 .59960 9.22800 14.699 .14470 5.09720 .36930 .08280 5.84940 .00000 8.38120 -5.18320 .59990 8.91570 9.382 14.674 .08280 .39420 .08690 5.08990 .00000 5.83980 -5.18790 8.40160 8.38660 16.975 .59990 14,665 .09070 .01450 .43150 5.09040 5.83269

8.39530

8.40610

8.41540

.00693

7.37290

6.36889

5.33720

-.66721

.59900

.60020

.60020

.00003

31.950

46.749

61.783

GRADIENT

14.668

14.673

14.669

-5.19670

-5.20180

-5.20920

-.00069

.00000

,00000

.00000

.00000

5.81470

5.80510

-.08026

-.01580

-.03460

-.00581

.09200

.09300

.00094

.45540

.47220

.00164

5.08240

5.09090

CARRIER DATA

(RGN) 193 ( 01 DEC 75 )

REFER	ENCE	DATA
-------	------	------

LREF BREF	-	5580.0800 327.7800 2348.6400	tn.	YMRP	-	1339.9000 0000 190.8000	IN.YC	
SCALE		.0300						

### PARAMETRIC DATA

ALPHAC	-	8.000	DETAC	-	5.600
ELV-18		.000	ELV-0B	•	3.090
ELEVON		5.000	MACH	•	500
BETAD	_	-5.000	PHI	-	נסם.
DX	-	10.000	DY	-	10.000
A07 12.0	:G				

		RUN NO	. 828/ 0	RN/L =	3.24 GRAS	DIENT INTER	144F0	8/ (2.60			
ALPHAO 10.232 10.221 10.228 10.086 10.098 10.159 10.305	DZ -3.158 170 4.274 8.078 10.921 26.257 41.630 GRADIENT	MACH .55960 .55930 .60060 .60030 .59990 .59500	OX 9.45520 9.04460 6.43650 8.00330 7.61260 5.50150 3.31110 12370	0Y 6.21690 8.24760 9.25130 6.24320 8.24420 6.24330 8.25550 00113	6ETA0 -5.17890 -5.16470 -5.20440 -5.21030 -5.21170 -5.22100 -5.2265000112	PHI .00080 .00000 .00000 .00000 .00000 .00000	ALPHAN 9.67640 9.67420 9.67370 9.67500 9.67450 9.66680 9.66440	BETA 5.11290 5.10390 5.10590 5.10510 5.09750 5.09920 5.09890 00114	CL .76960 .79090 .79300 .79570 .75590 .81240 .62590 .00059	CB .14570 .14430 .14380 .14390 .14410 .14520 .14780 .80004	CLH 10490 09970 09990 09990 10350 11310 11400 00051

GRADIENT INTERVAL .

RUN NO.	6527 0	RN/L =	3.22	GRADIENT INTERVAL = .00	12.60
---------	--------	--------	------	-------------------------	-------

ALFHAO 14.586 14.574 14.572 14.589 14.622 14.641	DZ 647 2.288 6.696 14.523 29.445 44.416 59.262 GRADIENT	HACH .59910 .00023 .00403 .00292 .00293 .00203 .00030	0X 7.90360 7.50930 6.68610 5.64670 3.60460 1.74040 31430 13524	DY 8.38630 8.38730 8.37630 8.36390 8.35910 8.36180 8.37110	BETAO -5.17870 -5.18980 -5.18510 -5.18580 -6.19440 -5.20120 -5.20680 00093	PH1 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 9.69920 9.69640 9.69580 9.69090 9.68180 9.67480 9.66940 00013	BETA 5.10990 5.09310 5.10230 5.10280 5.09570 5.10310 5.10350 .00265	CL .72830 .73070 .73910 .75208 .77760 .79690 .81210 .00162	CD .12990 .13040 .13230 .13470 .13850 .14150 .14350	CLH .01900 .00900 01390 04060 07460 08830 09970 00497
--------------------------------------------------------------------	---------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------------------------	---------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------	-----------------------------------------------	----------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	--------------------------------------------------------------------------	-------------------------------------------------------------------------------

DATE OF DEC 75

TABULATED SOURCE DATA - CARD

PAGE 77

	747/1	01 51	CARRIER DATA (RGM120) ( 81 DEC 75 )					C 75 }			
	REFERENCE	DATA			PAR					DATA	
LREF =	500.0000 SO.F 327.7880 IN. 348.0400 IN. .0300	T. XHRP YHRP ZHRP	.0	000 IN.XC 1000 IN.YC 1000 IN.ZC				ALPHAC = ELV-18 = ELEVON = EETAO = DX =	4.000 .000 5.000 -5.000	BETAC = ELY-08 = HACH = PHI = DY =	-5.000 .000 .600 .000
		RUN NO	. 765/ 0	RN/L =	3.25	GRADIENT INTER	IVAL = .	00/ 12.00			
ALPHAO 10.515 10.489 10.487 10.491 10.505 10.512	DZ -1.996 1.101 5.844 13.003 28.256 43.053 46.935 GRAD1ENT	HACH .60080 .59950 .60040 .59970 .60020 .60090 .59980 .00019	DX .84350 .64030 .31530 17740 -1.23080 -2.24980 -2.51800 06851	BY 11.45910 11.44630 11.45310 11.46190 11.48620 11.50370 11.50690 .00143	BETAC -5.2416 -5.2336 -5.2395 -5.2525 -5.261 -5.2630 0000	.00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAR 5.87130 5.86780 5.86370 5.86710 5.89710 5.83980 00086	BETA -4.99110 -4.99020 -4.99810 -4.9920 -4.99070 -4.99000 -4.98180 00167	CL .37780 .38140 .39300 .41180 .44110 .46060 .46460	CD .08900 .08950 .09040 .09210 .09320 .09350 .09330	.05580 .06040 .05740 .04160 .02220 .00850 .00580
ALPHAO 14.817 14.790 14.781 14.776 14.778 14.777	0Z .070 3.179 7.513 9.056 15.044 30.013 44.971 60.036 GRADIENT	MACH .60020 .60040 .60080 .60090 .59940 .59960 .60010 .60070	6x 31490 52360 62800 93650 -1.35410 -2.39160 -3.42760 -4.47510 06931	DY 11.35860 11.37120 11.38430 11.38410 11.39230 11.42080 11.43380 11.45160 .00197	BETA: -5.215: -5.208: -5.210: -5.215: -5.226: -5.227: -5.237: -5.248:	00000 00000 000 00000 00000 00000 00000 0000	ALPHAH 5.90170 5.89430 5.89240 5.89410 5.86950 5.85910 00094	82TA -4.98100 -4.97990 -4.98870 -4.99120 -4.99340 -4.99850 -4.98640 -4.98230 00045	CL .30630 .31450 .32700 .33240 .35660 .40150 .42960 .45020	CD .07990 .08190 .08440 .08520 .08600 .09160 .09270 .09280 .00059	CLM .14400 .13740 .13620 .12860 .10210 .05700 .03320 .0:600

-5.600

.000

CARRIER DATA

(RGH121) ( 01 DEC 75 )

PARAMETRIC DATA

REFERENCE DAT	A	ľ	1	ľ	۸	h	1	E		E	C	1	7	r	F	¢	1	¢
---------------	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---	---	---

GRADIENT

SETAC 3 8.000 ALPHAC . a 5500.0000 SQ.FT. XMRP - 1339.9000 IN.XC ELV-08 = .000 ELV-18 = SREF .0000 IN.YC S. OGO HACH . LR BF SC

REF * 3	500.0000 SQ.FT 327.7880 IN. 348.0400 IN. .0300	, XMRP YMRP ZMRP	.0	000 IN.YC 000 IN.ZC				ELEVON * BETAO = DX =	5.000 F	HACH = PHI = DY =	.600 .600 to.660
ALPHAO 10.296 10.312 10.352 10.359 10.447 10.474	-3.648 567 4.042 11.503 28.766 41.500	RUN NO. MACH .60030 .60080 .60030 .60030 .59940 .60020 .59970	766/ 0  DX5903099740 -1.03300 -2.66550 -4.78130 -6.83220 -7.5636013828	RN/L =  DY 11.55550 11.51870 11.50050 11.49930 11.52080 11.53820 11.5473000016	8ETA0 -5.26430 -5.24420 -5.23340 -5.23310 -5.24770 -5.28920 -9.26270 .0004	PHI .08000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 9.75040 9.74600 9.74400 9.73980 9.73980 9.72930 9.72930	07 12.60 ATA 19.270 -19.280 -19.880 -19.890 -19.890 -19.890 -19.80 -19.80 -19.80 -19.80 -19.80 -19.80	CL .76040 .75980 .75580 .77770 .79870 .61440 .61930 .00162	CD .14160 .14010 .13959 .14040 .14190 .14310 .14360	CLM 09420 05669 05490 05770 05620 05090
		RUN NO.	. 767/ 0	RN/L =		DIENT INTER PHI	D. = LAVI	12.00 BETA	CL	¢0	CLH
ALPHAO 14.690 14.688 14.707 14.735 14.751	DZ -1.559 1.597 5.926 13.492 28.283 43.438 58.164	MACH .60050 .60010 .59990 .60040 .59950 .59950 .60040	0X -1.92420 -2.35280 -2.54660 -3.98700 -6.03700 -8.14790 -10.20510 13716	DY 11.43940 11.42690 11.41730 11.41640 11.46360 11.4636000222	-5.22150 -5.23100 -5.24360	.00000 .00000 .00000 .00000 .00000 .00000	9.78050 9.77830 9.77890 9.75940 9.74920 9.74110 9.73190 00125	-4.97670 -4.98750 -4.99780 -4.99590 -4.98590 -4.98370 -4.98930 00007	.66800 .67500 .69040 .71660 .75270 .78130 .80060	.12570 .12650 .12830 .13160 .13589 .13870 .14050	.02650 .08080 .01670 .01670 -02590 -03970 -04690 -00386

-.13716

-,00005

DATE	٥ı	DEC	75

TABULATED SOURCE DATA - CA20

-.07863

-.00016

GRADIENT

(RGN122) ( 81 DEC 75 ) CARRIER DATA CARD 747/1 01 SI

PAGE 79

	REFERENCE	DATA							PARAHETRIC	DATA	
LREF =	500.0000 SQ.F 327.7800 IN. 348.0400 IN. .0300	T. XHRP YHRP ZHRP	= .0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-1B = ELEVON = SETAO = DX =	4.000 .000 5.000 -5.000	BETAC = ELV-08 = MACH = PHI = DY =	.000 .000 .600 .000 10.000
		RUN NO.	761/ 0	RN/L =	3.32	GRADIENT INTER	/AL = .	00/ 12.00			
			<b>5</b> 7	DY	BETAC	) PHI	ALPHAH	BETA	CL	CD	CLH
ALPHA0	DZ	MACH	DX	10.39810	-5.2379		5.87650	00910	.38260	.09130	. 14460
10.533	-1.760	.60020	.83728	10.49180	-5.2359		5.87280	0112	.37300	.09300	. 12300
18.518	1.242	.60000	.63340	10.40050	-5.2367		5.86530	01460	.38780	.09460	.10180
10.511	5.718	.60020	.32080	•	-5.2408	•	5.85710	01870	.41080	.09600	.05720
10.517	13.048	.59950	17620	10,40330			5.84810	01200	.44170	.09780	.02990
10.529	28.455	.60800	-1.23960	10.41620	-5.2518		5.84030	01840	.46280	.09830	.01100
10.535	43.071	.60080	-2.24820	10.43250	-5.2601	••	5.83630	01030	.46740	.09860	.00690
10.533	47.085	.60070	-2.52230	10.43510	-5.262	• • • • • • • • • • • • • • • • • • • •	00168	80076	.00331	.00036	80474
	GRADIENT	.00004	06805	00029	000	50 -00000	-,00100	.555.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		RUN NO	, 764/ D	RN/L *	3.26	GRADIENT INTER	VAL =	.08/ 12.00			
			ÐΧ	ΩY	BETA	o PH1	ALPHAN	BETA	CL	CD	CLH
ALPHAO	OZ	HACH	-,29330 vv	10.38910	-5.215	~	5.90850	00220	.27600	.07970	.28080
14.817	. 178	.60040	49760	10.40960	-5.212		5.98420	01100	01265.	.08210	.23810
14.797	3.057	.60070	-	10.41730	-5.212		5.89670	01520	.31460	.08500	.20270
14.787	7.581	.59930	61630	10.42580	-5.215		5.88060	01758	.35240	.08970	.13830
14.780	15.133	.59990	-1.34110	10.44100	-5.226		5.86560	01800	.40120	.09420	.06720
14.773	29.995	.59930	-2.37300	10.45180	-5.233	• • • • • • • • • • • • • • • • • • • •	5.85390		.43200	.09640	.03760
14.775	45.089	.60000	-3.41890	10.45180	-5.245	••	5.84420		.95200	.09720	.02060
14.771	60.069	.60020	-4.45690	0057 F.UI	.0.273		00168		.00517	.00071	01031

.00034

.00362

.00000

58.323

GRADIENT

0420 767/1 01 SI

.60020 -10.20520 10.46770 -5.24130

-.13722

-.00009

-.00332

CARRIER DATA

-.00138

.00109

.00000

.00103

(RGH123) ( 01 DEC 75 )

.00395

.00044

-.08596

			CA2D	747/1	01 51		C	RESIER DATA		(100mil	J, ( ), OL	• • • • • • • • • • • • • • • • • • • •
	REFERENCE	: OATA							6	ARAMETRIC	DATA	
LREF =	500.0000 59.6 327.7800 IN. 348.0400 IN. .0300		01	000 IN.XC 000 IN.YC 000 IN.ZC					ALPHAC = ELV-IB = ELEVON = EETAO = DX =	8.000 .000 5.000 -5.000	BETAC + ELV-08 + MACH + PHI + DY +	.600 .600 .600 .600
		EUN NO	, 769/ 0	RN/L =	3.20	GRADI	ENT INTER	VAL = .0	12.00			
ALFHAO 18.341 10.346 10.375 10.411 10.469 10.496 10.503	02 -3.606 403 6.542 11.472 26.651 41.561 46.645 GRADIENT	(1ACH .60010 .55560 .60010 .60010 .59920 .59930 .60020	0x 56510 -1.02000 -1.03100 -2.65140 -4.75740 -6.03220 -7.55930 13035	0Y 10.45990 10.44290 10.41910 10.41120 10.41420 10.42860 10.43080 00133		1020 1670 1990 1970 1700 1710 1900	PH1 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALFHAH 9.74499 9.74600 9.74280 9.73290 9.73260 9.72730 9.72590 00049	EETA00690010400146001770006800079000882	CL .76030 .75900 .76780 .77650 .79710 .61230 .81690	.14520 .14520 .14400 .14420 .14670 .14690 .14970 .00005	CLM 01250 00860 01990 02930 03720 02240 04000 00159
		RUN NO	). 763/ 0	RN/L =	3.26	GRAD	LENT INTER	IVAL = -1				CLH
ALFHAO 14.639 14.691 14.699 14.711 14.742	02 -1.516 2.914 7.487 13.631 29.443 43.346	MACH .60080 .60020 .52930 .52930 .60010	0x -1.91500 -2.51930 -3.14680 -3.93010 -6.03760 -8.11400	DY 10.45900 10.44440 10.42930 10.41830 10.42940	-5.21 -5.21 -5.22	2780 1870 1406 1290 2190 2970	PH1 .00000 .00000 .00000 .00000 .00000	ALPHAN 9.7730 9.77300 9.76670 9.75730 9.74450 9.73760	EETA 00678 01230 00730 01900 02910 01780 01780	CL .66970 .68260 .70020 .72078 .75730 .78210	.13900 .14270	.09870 .06980 .04300 .01430 01910 02820 03410
	EO 737	60020	-10.20620	10.46770	-5.21	4130	.00030	9.72850	00000			

the second name of Street, or other Desires.
-
NAME OF TAXABLE PARTY.
Company of the last of the las
Name and Address of the Owner, where the Persons of

01 OCC 75	TABULATED	SOURCE	DATA -	CACU

DATE OI DEC	75	TABULA	TED SOURCE (	DATA - CA2	0						
DRIL OF DE			CA20	747/1	01 SI	CA	RRIER DATA		(RGN124)		: 75 1
								P	ARAHETRIC (	ATA	
LREF = 38	REFERENCE 10.0000 SQ.FT 27.7800 IN. 18.0400 IN. .0300		.00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB * ELEVON = BETAO = OX *	.000 1 5.000 1 -5.000	BETAC = ELV-08 = HACH = PHI = DY =	5.000 .000 .600 .000
		RUN NO.	. 769/ 0	RN/L =	3.24 GR	ADIENT INTER	/AL = .0	ò/ 12.00			
ALPHAO 10.561 10.533 10.511 10.506 10.514 10.514	OZ -1.969 1.261 5.843 13.217 28.279 42.986 46.942 GRADIENT	MACH .60050 .60040 .60050 .60020 .59950 .59930 .59990	0X .84330 .62320 .31090 19498 -1.23590 -2.25500 -2.52760 06816	DY 9.22610 9.23700 9.24170 9.24420 9.25270 9.26120 9.26360 .00103	8ETA0 -5.20960 -5.21690 -5.22710 -5.23460 -5.25480 -5.25480 25640 00188	.00000 00000 00000	ALPHAH 5.87540 5.87370 5.87190 5.86400 5.85360 5.84920 5.84540 00039	BETA 5.00580 5.00280 4.98430 4.98420 4.99140 4.99910 4.99920 00404	CL .38430 .38960 .40110 .42210 .45030 .46830 .47270 .00251	.08690 .08690 .08810 .08930 .09140 .09270 .09270 .09290	CLH .12030 .10778 .08830 .05060 .01380 00290 00500 00423
ALPHAO 14.954 14.915 14.869 14.877 14.871 14.867	DZ .809 %.128 10.992 18.691 33.530 48.582 63.797 GRADIENT	RUN NO. MACH .60000 .59920 .60000 .60000 .60040 .59940 .00010	DX3694059930 -1.07290 -1.60570 -2.63000 -3.67260 -4.7319006907	DY 9.30510 9.32970 9.34180 9.35210 9.36710 9.37470 9.39310	9ETA0 -5.19510 -5.20000 -5.20770 -5.21430 -5.22520 -5.24340	00000. 1 00000. 0 00000. 0 00000. 0	ALPHAK 5.90150 5.89450 5.89800 5.87640 5.85860 5.84820 5.84820 00127	BETA 4.99800 4.99270 4.99680 4.99090 4.98910 4.98940 4.98940 00001	CL .30060 .31400 .33910 .36980 .41200 .44020 .45910	CD .67570 .07730 .08270 .08720 .09030 .09140 .69210	CLH .23800 .20480 .16560 .11210 .05030 .01980 .00440

PAGE 81

(RESNIES) ( 81 DEC 75 1 CASRIER DATA CA20 747/1 01 S1

			CVEO	/4//1	0. 3.	-					
	reference	DATA							PARAMETRIC	DATA	
LREF =	590.0000 SQ.F 327.7880 IN. 340.0400 IN.		.8	000 IN.XC 000 IN.YC 000 IN.ZC				ALFHAC = ELV-IB = ELEVON = BETAO = OX =	8.000 .000 5.000 -5.000	BETAC = ELV-08 = MACH = PHI = DY =	5.000 .800 .800 .000
		aus no	. 770/ 0	ESV/L =	3.23	GRADIENT INTERV	AL	0/ 12.80			
ALPHAO 10.389 10.364 10.376 10.412 17.455 1479 10.486	DZ -3.483 264 4.846 11.707 26.499 41.497 46.758 GRADIENT	MACH .59390 .60040 .59830 .59830 .59830 .59310	0x 59100 -1.01940 -1.62970 -2.69850 -4.73520 -6.81820 -7.55090 13820	9.16540 9.20850 9.20850 9.21350 9.21350 9.22210 9.22410 .00056	EETAO -5.1921 -6.2124 -5.2225 -5.2311 -5.2426 -5.2514 -5.2546 0011	0 .00000 0 .00000 0 .00000 0 .00000 0 .00000 0 .00000	ALPHMA 9.73870 9.73710 9.73710 9.73610 9.72890 9.72890 9.71940 00042	6ETA 5.08460 5.0840 5.0830 4.9830 4.98310 4.98390 5.0830 0819	CL .76870 .76850 .77200 .78100 .80640 .81550 .81540	CB .14240 .14200 .14160 .14240 .14460 .14690 .14640 .00009	CLH 05540 04460 04470 05720 07030 07250 07250 00163
			o, 771/0	RN/L =	3.23 BETAC		ALFHAN	EETA	CL	CD	CLM
ALPHAO	DZ	MACH	DX	9.33230	-5.1959		9.76760	5.01150	.68910	. 12458	.04950
14.823	E64	.59950	-2.03280	9.33530	-5.2038	•	9.78340	4.99910	.69500	. 12500	.04550
14.797	1.955	.60050	-2.41590	9.33420	-5.2075		9.75690	4.99440	.70830	. 12780	.02010
14.791	6.399	.59990	-3.02280	9.33720	-5.2102		9.74920	5.00170	.72830	. 13140	01233
14.798	14.059	.60070	-4.07020	9.31700	-5.2181	• •	9,74418	4.99368	.75580	.13580	04650
14.019	28.947	.59990	-6.12930	9.32610	-5.2259	• • • • • • • • • • • • • • • • • • • •	9.73320	5.08170	.78040	.14030	05500
14.842	43.761	.60020	-8.18550 -10.31650	9.34640			9.72670	5.00260	.79980	. 14340	06400
14.847	59.029	.69390	-16.31620	9.37070	0.000		- 00101	00093	.00293	.00063	00572

-.00083

-.13657 -.00236

-.00014

GRADIENT

-.00093

-.00101

.00000

DATE OI DEC 75

10.477

10.478

48.212

GRADIENT

TABULATED SOURCE DATA - CA20

PAGE B3 (RGN126) 4 51 DEC 75 1 CARRIER DATA 747/1 02 51 PARAMETRIC DATA REFERENCE DATA 4.000 BETAC = -5.000 ALPHAC = 1339.9000 IN.XC XHRP 5500.0000 SQ.FT. 3.000 .000 ELY-08 = ELV-IB = ,0000 IN.YC 327.7800 IN. YHRP LREE .600 ELEVON # 5,000 HACH 190,8000 IN.ZC ZMRP 2348.0400 IN. BREF = .000 .000 PHI BETAO = SCALE = .0300 DY .000 .000 ВX GRADIENT INTERVAL - -1.00/ 4.00 3.29 RUN NO. 656/ 0 RN/L = ÇΩ CLH **BETA** CL PHI ALPHAH BETAO ĐΥ OX ΟZ HACH ALPHAO .05490 -4.99100 .37890 .09700 5.87110 .02640 .00000 1,93190 .60040 10.78960 -1.096 10.466 .05110 -4.97980 .38450 .08780 .00000 5.87110 1.94420 .61790 10.56940 .59920 2.127 10.459 .39760 .09010 .03000 .00000 5.86390 -4.98600 .01060 1.96080 10.26250 6.620 .60000 10.459 .03230 .00140 -4.97810 .41920 5.85590 .00250 .00000 9.74740 1.97410 .59980 14.115 10.464 -.02500 -4.98080 ,44900 .09450 -.00500 . 86000 5.84530 1.99390 8.71410 .59940 10.475 29.115 -.03570 .09480 5.84030 -4.98880 .46930 .00000 -.00610 2.00190 .59950 7.67070 44.160 10.481 -.04030 -4.98750 .47340 .09470 5.03410 2.00180 -.00610 .00000 7.39520 .59920 48,200 10.465 .00000 .00000 .00000 .00800 .00000 .00000 .00000 .00000 .08000 .00000 GRADIENT (RGN127) ( 01 DEC 75 ) CARRIER DATA 747/1 02 SI CA20 PARAMETRIC DATA REFERENCE DATA BETAC = -5.000 ALPHAC = 4.000 XHRP = 1339.9000 IN.XC SREF \* 5500.0000 50.FT. .000 ELY-08 = 3.000 ELV-IB -.0000 IN.YC YHRP IREE \* 327.7800 IN. HACH .600 ELEVON = 5.000 190.8000 IN.20 BREF = 2348.0400 IN. ZMRP = .000 PHI BETAO -.000 SCALE = .0300 .000 10.000 ĐΥ GRADIENT INTERVAL = -1.00/ 4.00 3.34 657/ 0 RN/L = RUN NO. CLH CD ALPHAH BETA BETAO PHI OY DZ MACH DX **ALPHAO** .04950 .08710 5.86290 -4.96760 .40190 .00000 .02690 1.92340 .59920 10.78030 -1.292 10.433 .68770 .04690 .40440 -4.96380 .00000 5.86170 10.57160 1.93720 .01910 1.807 .59920 10.431 .02600 .08960 .41440 .00000 5.85780 -4.96200 1.94970 .01210 10,27160 .60080 6.229 10.433 .09180 .00060 5.85180 -4,95390 .43060 .00440 .00000 1.96260 ,60000 9.73470 14.070 10,444 .09420 -.02440 -4.95700 ,45460 5.84330 1.97980 -.00320 .00000 8.71920 .59930 28.827 10.465 -.03650 .09450 -4.97220 .47130 .00000 5.83720 -.00450 7.67520 1.99260 43.949 .59940

-.04030

.00000

.09470

.00000

-4.96410

.00000

5.83600

.00000

.00000

.00000

1.99180

.00000

7.38180

.00080

.59980

.00000

-.00550

.00000

.47470



-.03930

.00078

.10010

S#800,

CARRIER DATA

.04510

.00233

.47770

.00171

5.83420

-.00055

.00000

.00000

(RGN128) ( 01 GEC 75 )

			CARD	747/1	05 21	C	STREET SAIN				
	REFERENCE	0474						f	ARAHETRIC	DATA	
LREF = 38	0.0080 SQ.FT 7.7800 IN. 8.0400 IN. .0380		• .00	00 [N.XC 00 [N.YC 80 [N.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = OX =	.000 5.000 .000	BETAC = ELV-OB = HACH = PHI = DY =	-5.000 3.000 .600 .000
		RUN NO.	569/ 0	RN/L =	3.32 GRAD	HENT INTER	VAL1.0	0/ 4.00			
ALPHAO 10.339 10.333 10.348 10.350 10.363 10.395 10.401	DZ -1.708 1.490 5.895 13.450 28.424 43.434 49.251 ERADIENT	,	OX 20.70390 20.57030 20.26620 19.75050 16.72420 17.69220 17.35740 .00000	DY 2.80120 2.80850 2.80850 2.84000 2.84590 2.86070 2.86070 2.66070	EETAO .02290 .01290 .00970 .00250 00400 00470 00700 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.84610 5.64520 5.64260 5.83790 5.83120 5.82320 5.82450	6ETA -4,97720 -4,96530 -4,9620 -4,97010 -4,97740 -4,95530 -4,96530 -00000	CL .42300 .42460 .43080 .44350 .46260 .47670 .46180	.09930 .09960 .09950 .09950 .09370 .09420 .09420 .09000	CLH .02330 .02780 .01350 00630 02780 02900 04160 .00000
			CASO	747/1	02 SI	c	CARRIER DATA		(RGN12	91 (OLDE	C 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF = 3	REPERANCE 00.0000 SQ.F 27.7800 IN. 48.6400 IN. .0300		<b>.</b> 0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = ELV-08 = HACH = PHI = DY =	.000 .000 .000 .000
		RUN NO	. 6527 0	RN/L =	3.31 GR/	DIENT INTE	RVAL1.	00/ 4.00			
ALPHAD 10.500 10.491 10.491 18.498	0Z -,437 2,659 7,176 14,694	MACH .60030 .59970 .60030 .59940	DX .77380 .55060 .25130 26210	DY 01920 01970 01380 01610	.06460 .00350 .00270	PH1 .00000 .00000 .00000	ALPHAN 5.87489 5.87310 5.86560 5.65330	85TA .04740 .05460 .03860 .05350	CL .37240 .37770 .39580 .41900 .44890	.09270 .09270 .09400 .69570 .09790	CLM .08110 .08350 .05540 .01990 01340
10.508	26.858 29.527	.59930 .69940	-1.10100 -1.28250 -2.33460	00510 00180 00040	00280	00000. 00000. 00000.	5.64700 5.64330 5.63550	.03710	.45270 .45270	.09940	01860 03640 03990

-.00470

-.00028

-.00040

.00190

-.00016

-2.33460

-2.66460

-.06887

.59910

.60070

-.00019

44.750

48.690

GRADIENT

10.521

PAGE 85 TABULATED SOURCE DATA - CA20 DATE DI DEC 75 (RGH129) ( 01 DEC 75 ) CARRIER DATA CA20 747/1 02 SI PARAMETRIC DATA REFERENCE DATA .008 ALPHAC = 4.000 BETAC = 1339.9000 IN.XC XMRP = SREF = 5500.0000 SQ.FT. ELV-08 = 3.000 .009 ELV-18 = .0000 IN.YC YHRP \* LREF = 327.7800 IN. HACH = .600 5.000 ELEVON = 190.8000 IN.ZC BREF = 2348.0460 IN. ZHRP = .600 .000 PHI BETAD = .0300 SCALE = .000 .000 DY ĐΧ GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 653/ 0 RN/L . 3.29 CLH CD ALPHAH BETA CL PHI BETAO DY DZ HACH ĐΧ ALPHAO . 19570 .28490 .08160 .03130 -.00010 .08080 5.90450 -.37590 -.00820 .60030 1.601 14.760 .18140 .29830 .09310 .04580 5.89740 -.00160 .00000 -.00730 -.60190 .60000 14.750 4.801 .08780 .15120 .32050 5.89170 .04590 .00800 -.00130 -.00570 9.200 .59960 -.90970 14.743 .09300 .09280 .35728 5.87580 .05400 .00000 -,00350 -.00310 -1,41430 .59900 16.514 14.738 .03030 .09660 .40780 .00000 5.85960 .03740 -.00700 .01100 .59310 -2.45150 14.739 31.538 -.00340 .09840 .04480 .44010 .00000 5.84790 .01400 -.00920 -3.49840 46.575 .59980 14.741 -.02520 .46110 .09900 .04460 .00000 5.84020 -.01480 .02380 .59920 -4.52810 14.736 61.537 .00000 .00000 .00000 .00080 08030. .00000 .00000 .00000 .00000 .00000 GRADIENT C 01 DEC 75 1 (RGN130) CARRIER DATA 02 51 CASO 747/1 PARAHETRIC DATA REFERENCE DATA BETAC = .000 4.000 ALPHAC . . 1339.9000 IN.XC XMRP SREF # 5500.0000 SQ.FT. 3.000 .000 ELV-OB . ELV-IB = .0000 IN.YC YHRP LREF - 327.7800 IN. .600 ELEVON \* 5.000 HACH ZMRP # 190.8000 IN.ZC BREF = 2348.0400 IN. .000 .000 PHI BETAO = .0300 SCALE = .080 DY 10.000 GRADIENT INTERVAL = -1.80/ 4.80 RUN NO. 681/ 0 RN/L = 3.30 CD CLH BETA CŁ **ALPHAH** BETAO PHI ĐΧ DY HACH DΖ ALPHAO .07700 .09170 .39690 .00080 5.86600 . .00120 .00540 -.00590 10.81230 -1.295 .59950 10.416 .08070 .39890 .09330 5.86550 .00080 -.00370 .00510 .00000 10.60778 .59980 1.696 10.413 .05760 .09510 .00010 .41640 .00360 .00000 5.66130 -.08080 .59950 10.29140 10.418 6.294 .09720 .02280 .42830 5.85460 .00730 .00000 .00220 9.77720 -.00180 13.796 .59400 10.427 .09860 -.01600 -.00150 .45770 5.64380 .00000 8.74460 .00980 -.00260.59940 28.832 10.446 .09920 -.03390 .47530 .00540 -.00200 .00000 5.83270 .00770 .59950 7.71030 10.459 43.895 .03940 -.03810 .00530 .47928 .00000 5.03590 -.00390 .59900 7.4.169 .01030 48.115 10.460 .00000 .00000 .00800 .00000 .00000 .00000

.00000

.00000

.00000

GRADIENT

CARRIER DATA (AGN130) ( OI DEC 75 ) CAED 747/1 02 51 PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 4.000 BETAC \* SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC ELV-IB -.000 ELV-08 = 3.000 .0000 IN.YC YMRP = LREF = 327.7800 IN. .600 HACH = ELEVON = 5.000 BREF = 2348.0400 M. ZMAP = 190.8800 IN.ZC .000 .000 PHI EETAG -SCALE = .0300 EX = 10.000 DY .000 RN/L = 3.31 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 659/ 0 CLM GETA CL CĐ ALPHAH HACH ĐΧ DY BETAO PHI DZ ALPHA0 .22310 -.00220 .00000 5.69550 -.01400 .32140 .08030 .00240 .69990 9.49428 14.654 1.473 .08240 .21250 5.69360 .007ED .22920 -.00770 -.00200 .00000 14.652 4.559 .59970 9.23000 .GB710 .16720 .00000 5.65430 -.00048 .34880 .60088 6.97890 -.00540 -.80190 9.090 14.654 5.87540 -.09060 .37820 .09100 .10170 6.45720 -.60110 -.00280 .00000 .59930 14.654 16.527 .03820 .09600 .00000 5.86060 .00550 .41820 .91239 -.00750 14.662 31.535 .59920 7,42330 .00100 -.00160 .44630 .09760 .01520 -.08730 .00000 5.63640 45.582 .60060 6.39510 14.659 5.84130 .00830 .46460 .02930 -.01960 -.01170 .00000 .59930 5.35300 .02020 61.500 14.656 .08000 .00000 .00080 .00000 .08000 .00000 .00000 .00000 GRADIENT .00000 .00000 (RGN131) ( 01 DEC 75 ) CARRIER DATA CAEO 747/1 02 51 PARAMETRIC DATA REFERENCE DATA 4.000 BETAC = .000 ALPHAC = жээ = 1339.9800 IN.XC SREF = 5500.0000 EQ.FT. 3,000 ELV-18 = .000 ELV-08 = LREF = 327.7800 IN. YMRP = .0000 IN.YC ELEVON = 5.000 HACH -.600 ZMRP = 190.8000 IN.20 GREF - 2340.0400 IN. BETAO -.000 PHI .000 SCALE = .0300 .000 DY DX -20.000 RN/L = 3.89 GRADIENT INTERVAL = -1.00/ 4.00 EUN NO. E85/ 0 CLH ALPHAH AT38 CL. CD DY BETAG PHI MACH DX ALPHAO DZ .05729 5.65580 .41890 .09180 .00000 .00310 20.75990 -.01360 .01070 -1.157 .60020 10.344 .05920 .09310 .41930 20.57800 -.01030 .00920 .00000 5.65790 .88760 .60030 1.504 10.399 .00000 5.85700 .00570 .42988 .09530 .04340 .00820 20.24646 -.01160 .60080 10.359 6.352 .00620 .44230 .09720 .01560 .00000 5.64970 -.00940 .00560 13.612 .60090 19.74450 10.371 .01320 .09960 -.01810 .46460 -,08410 .00100 .00000 5.03920 18.70630 28.735 .59970 10.391

5.83590

5.03690

.00800

.00000

.00000

.00000

.00120

.00520

.00000

17.66210

17.34990

.00000

.55970

.59950

.00000

.00220

.00030

.00000

.00580

.00580

.00000

.47980

.48310

.00000

.09930

.03940

.00000

-.03490

-.03660

.00000

\_\_\_\_

10.468

10.409

43.899

48.295

GRADIENT

PAGE 87 TABULATED SOURCE DATA - CARD DATE OI DEC 75 (RGN1311 ( 01 DEC 75 ) CARRIER DATA CA20 747/1 02 SI PARAMETRIC DATA REFERENCE DATA 4.080 BETAC . .000 ALPHAC = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. XMRP = 3.000 .000 ELV-08 = ELV-IB -.0000 IN.YC LREF \* 327.7800 IN. YHRP .600 ELEVON = 5.000 HACH ZMRP = 190.8000 IN.ZC BREF = 2348.0400 IN. .000 .000 PHI BETAO = .0300 SCALE = .000 20,000 DY DX GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 666/ 0 3.30 RN/L = CLH BETA ĊL. CD **ALPHAH** BETAO PHI DX DY HACH **ALPHAO** DΖ .21260 .35400 .08090 -.00740 5.88270 -.00550 .00370 .00000 .60070 19.36720 1.265 14.563 .20560 .35910 .08310 .00000 5.88100 .00760 .00290 -.01280 19.17960 3.972 .59970 14.561 .37530 .09750 .16320 5.87500 .00680 .00000 -.01360 .00120 18.85080 .60090 8.805 14.556 .10490 .39780 .09180 .01380 .00040 .00000 5.86890 -.01960 18.32510 .60070 14.572 16.457 .03800 .00560 .43150 .09530 .00000 5.85150 -.00270 -.00450 31.737 .59980 17.27880 14.587 .09730 .00330 .45330 .00000 5.84570 .01340 -.00300 16.26130 .00240 .60030 14,597 46.430 -.01750 .09820 .46870 .00000 5.04000 .01330 .01090 -.00780 15.24460 14.592 61.104 .60010 -.00259 -.00063 . 00554 .00188 .08081 .00000 -,00030 -.00270 -.00037 -.66931 GRADIENT (RGN1321 1 01 DEC 75 1 CARRIER DATA 747/1 02 SI CAZD PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 8.000 BETAC = XHRP = 1339.9000 IN.XC SREF \* 5500.0000 SQ.FT. 3.000 ELV-IB = .000 ELY-08 . .6000 IN.YC LREF = 327.7800 IN. YMRP = .600 5.000 HACH ELEVON -ZMRP = 190.8000 IN.ZC BREF = 2348.6400 IN. .000 PHI BETAO = .000 SCALE = .0300 .000 DY .000 DX GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 655/ 0 RN/L = 3.29 CD · CLH CL ALPHAH BETA BETAO PHI HACH DX ĎΥ **ALPHAO** DZ .76320 .14550 -.08960 .05010 .00000 9.73250 -.58580 -.01840 .00440 .60020 10.325 -3.370 -.07900 .14500 .76340 9.73490 .04910 .00540 .00000 -.02020 -1.00628 -.284 .59980 10.339 -.08030 .14530 9.73230 .04020 .77110 .00000

.00340

.00270

-.00210

-.00159

-.00430

.00000

9.72798

9.72050

9.71560

9.71420

.00000

.00000

.00000

.00000

.00000

.00000

.14610

.14820

. 15030

.15060

.00000

.78370

.88520

.02000

.82390

.00000

.03930

.04650

.03910

.04678

.00000

-.08418

-.09660

-.08370

-.08170

.00000

-.01390

-.01290

-.00550

-.00280

.00000

.00000

.59930

.59950

.60060

.60090

.59980

.00000

4,265

11.674

26.974

41.940

47.907

GRADIENT

10.350

10.393

10.467

10.499

10.504

-1.62680

-2.64370

-4.75580

-6.64130

-7.67290

DATE OI DE	EC 75	TABU	LATED SOURCE	DATA - CA	120					P&3	E 89
			CAZO	747/1	02 51	(	ARRIER DATA		(0.0413	5) (01.0E	C 75 )
	REFERENC	E DATA							PARAMETRIC	DATA	
LREF	6500.0000 5Q. 327.7800 IN. 2348.0400 IN. .0300	FT. XUMR YMA ZMA	D . 00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-GB = HACH = PHI = DY =	.000 3.000 .600 .000
•	•	run n	0. 654/ 0	RN/L =	3.27 GR/	DIENT INTER	RVAL = -1.6	0/ 4.00			•
CAHFLIA	DZ	MACH	ÐΧ	DY	BETAO	PHI	ALFHAH	BETA	CL	CD	CLH
14.639	-1.695	.59930	-1.54790	01490	00000	.00800	9.77160	.04100	.66530	. 12710	.04170
14.640	1.803	.99300	-2.34740	01540	.00040	.00800	9.77590	.04040	.67490	.12910	.03520
14.651	6.322	.55939	-2.98170	<b>017</b> 38	60080	.00800	9.76190	.04750	.69490	. 13280	.00780
14.659	13.667	.59920	-4.08010	01650	00120	.00000	9.75180	.03500	.72280	. 13570	02390
19.700	28.916	.99940	-6.07580	01170	60800	.00000	9.73820	.05370	.76130	. 14020	06890
14.717	43.759	.60060	-8.13400	.00140	08650	.00000	9.72610	.04610	.78940	. t4430	07170
14.720	59.717	.55320	-10.22410	.01690	01250	.80000	9.72190	.03890	.00790	. 14670	+.07870
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
			CARD	747/1	<b>02</b> St	(	CARRIER DATA		(RGN13	33) (0) DE	C 75 )
	REFERENC	E DATA							PARAMETRIC	DATA	
coce - F	ene ene co	er vec	- 1220 C	10B 18J YC				AT PHAC =	8.000	BETAC =	-000

EREF		5508.0008 S	O.FT.	XMRP	_	1339.8000	IN.XC	ALPHAC	-	8.000	BETAC	-	.000
LREF		327.7800 1	N.	YHRP	•	.0000	IN.YC	ELV-18	•	.080	ELV-06	<b>=</b>	3.000
EREF	•	2348.0408 1	N.	ZNRP	-	190.8000	IN.ZC	ELEVON	=	5.000	HACH	*	.600
SCALE		.0300						BETAO		.000	PHI	•	.000
								nx	=	10.000	DY	-	מממ.

	RUN NO. 659/ 0 RN/L = 3.32 GRADIENT INTERVAL = -1.00/ 4.00													
ALPHAO	DZ	MACH	DX	DY	BETAD	PHI	ALPHAH	BETA	ÇL	co	CLH			
10.250	-3.341	.59930	9.46669	00230	.00650	.00000	9.73350	00380	. <b>7</b> 7950	. 14540	08908			
10.231	279	.60070	9.64960	00670	.08710	.00000	9,73400	.00310	.77900	.14560	07890			
10.265	4.305	.60089	8,41540	00380	.00540	.00000	9.73010	.00210	.78410	.14580	07530			
10.320	11.789	.69090	7.39060	00170	.00420	.08880	9.72910	.00100	.79390	.14680	07240			
10.393	26.778	.69960	5.31340	.00370	80880	.08080	9.72150	.00810	.82910	.14790	CB0B0			
10.431	41.810	.69030	3.20170	.01180	00050	.00000	9.71970	00590	.82100	. 14950	07780			
10.441	48.647	.60060	2.25430	.01190	00240	.00000	9.71650	.00070	.62450	.15020	07670			
	GRADIENT	.00000	.00088	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000			

DATE OI DE	C 75	TABULA	TED SOURCE	DATA - CA	20					PAG	€ 89
			CYSD	747/1	02 SI	C.	ARRIER DATA		(RGH13	3) ( 01 DE	C 75 )
	REFERENCE	DATA						1	PARAHETRIC	DATA	
		T. XMRP	<b>=</b> 1339.9	000 IN.XC				ALPHAC =	8.000	BETAC =	.900
	5500.0000 SQ.F	THRP		000 IN.YC				ELV-18 =	.000	ELV-08 =	3.000
REF =	327.7800 IN. 2348.0400 IN.			000 IN.ZC				ELEVON =	5.000	MACH .	.600
	.0300 (4.	Ziru	- 130.0	200 111120				BETAO =	.000	PHI =	.000
CALE =	.0300							DX =	10.000	DY =	.000
		RUN NO.	66D/ 0	RN/L =	3.29 GRAD	DIENT INTER	WAL = -1.0	0/ 4.00			
ALPHAO	Đ2	MACH	DX	OY	BETAO	PH1	ALPHAH	8ETA	CL	CD	CLH
14.520	-1.391	.60010	8.03730	, 60340	.00250	.08080	9.76000	00500	.70850	.13150	.0537
14.524	1.080	.59980	7.69910	.08410	.00150	.08000	9.75650	08550	.71300	. 13310	.0503
14.540	6.153	.59910	7.00390	00160	.00050	.00800	9.75340	.00920	.72690	.13540	.022
14.567	13.465	.59920	6.00060	00680	-,00840	.00000	9.74660	.01620	.74520	. 13770	ا 01،-
14.611	28.593	.59930	3.91500	.00730	00720	.00000	9.73550	80939	.77620	.14180	-,047
14.634	43.596	,59940	1.83370	.80150	00600	.00000	9.72810	.00760	.79710	. 14470	062
14.648	58.440	.60020	23670	.01520	01150	.00000	9.72500	.00040	.81280	. 14789	059
.,,_,	GRADIENT	.00000	.60000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.0001
			CARO	747/1	62 51	c	CARRIER DATA		(RGN13	F4) (01.06	C 75 )
	REFERENCI	E DATA							PARAHETRIC	DATA	
ener	5500.0000 SQ.(	TT. XMRP	= 1339.9	3000 IN.XC				ALPHAC =	8.080	BETAC +	.000
SREF = !	327.7800 IN.	YHRP		3000 IN.YC				ELV-IB =	.609	ELV-08 =	3.000
	2348.0400 IN.	ZHRP		1000 IN.ZC				ELEVON -	5.000	MACH =	.500
SCALE =	.0309	E/#U						BETAO =	.000	PHI =	.008
DUALE -	.6368							0x =	50.000	DY =	.000
		RUN NO	. 669/ 0	RN/L *	3.28 GRA	DIENT INTER	RVAL1.	30/ 4.00			
ALPHAO	o OZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	a)	CLH
10.184	-3.785	.59970	19.58200	01190	.01250	.00000	9.73010	.01060	.83040	. 14610	[ [4
10.194	.797	.60000	18.95340	01600	.01120	.00000	9.73130	.01700	.79860	. 14740	092
10.227	9.220	.59910	17.92710	00760	.00800	.08089	9.72960	.00810	.68410	. 14810	086
10.297	23.195	.60060	15.84870	08440	.00240	.00000	9.72530	.01510	.81720	. 14990	083
				- 000-00	.00070	.00000	9.72080	.02340	.82400	, 15150	076
	38.211	.60080	13.75840	-,00420							
10.347	38.211 49.398	.6888 <b>0</b>	12.19640	.00940	60190	00000,	9.72110	01800. 00000.	.83910	.152 <b>70</b> .00000	074 .009

GRADIENT

(RGN134) ( 01 DEC 75 )

			CYSO	74771	UC DI						
	_							P	ARAHETRIC	DATA	
	REFERENCE	DATA									
				00 IN VC				ALFHAC .	8.000	BETAC =	.020
-	500.0000 SQ.F			OD IN.XC				ELV-18 =	.000	ELV-08 =	3.000
	327.7800 IN.	YMRP		BO IN.YC				ELEVON =	5.080	HACH =	.600
BREF = 2	348.0408 IN.	ZMRP	= 199.BC	100 IN.ZC				EETAO =	.000	PH! =	.020
SCALE =	.0300							DX =	20.000	DY -	-000
-											
		RUN NO.	667/0.	RN/L =	3.29 GRAE	IENT INTER	VAL = -1.0	10/ 4.60			
										co	CLH
AL BUAD	DZ	MACH	DX	DY	BETAD	PHI	alfhah	CETA	CL	.13390	.04150
ALPHAO	-1.978		18.06930	08458	.00850	.00000	9.75690	.00220	.72510		.64360
14.434			17.63650	00300	.00720	.00800	9.75390	.60130	.73935	.13590	
14.439	1.123	.005.0	17.03550	00600	.80540	.00000	9.75090	.00910	.74700	.13930	.02890
14.456	5.657		15.98070	00580	.00360	.00000	9.74550	.69740	.78130	.14030	00460
14.482	13.169		13.92498	00740	09290	.00000	9.73540	.01440	.73440	.14380	03880
14.529	28.038		11.87180	00690	00230	00000	9.73310	.01490	.80220	. 14630	05200
14.557	42.826		9.78330	.00220	-,00830	.00000	9.72850	.00760	.81440	.14830	CEGED
14.572	57.824	.60030	.00000	.00800	.00000	.00000	.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000							
			CA20	747/1	02 51	(	CARRIER DATA	A	(REN1	25) (O) DE	(C 75 )
			CACU	14171	02 3.						
	REFERENC	E DATA							PARAHETRI	C BAIA	
								ALFHAC =	4.000	DETAC =	-5.000
SREF = (	5500.0000 50.	FT. XMEP	-	BBB IN.XC				ELV-IB •	.000	ELV-08 =	3.000
LREF P	327.7800 IN.	YKRP		1000 IN.YC				ELEVON =	5.000	HACH *	.600
	2348.0400 IN.	ZNFLP	• 19D.6	0000 IN.ZC				BETAO =	.000	PHI •	.000
SCALE =	.0300							DX =	.000	DY -	10.089
301.22								u^ -	1000	<del></del> -	
		C NO	. 728/ 0	RN/L =	3.27 GR/	DIENT INTE	RVAL = -1.	00/ 4.00			
		RUN NO	. 1201 U	1007E -	J.2.	<del>_</del>			4.		~ 4
	07	MACH	ΩX	ÐΥ	BETAO	PHI	ALPHAN	BETA	CL	CD	CLH
ALPHAO		.59940	.87430	11,02640	.03050	.00000	5.82870	-4.958ED	.36830		~.03020
10.580	-1.686	.23340	0.0700	11 02000		.08080	5.02390	-4.95160	.39680	<b>0</b> 5160.	03000

ALPHAO 10.530 10.517 10.515 10.523 10.531	0Z -1.686 1.116 5.425 13.265 28.048 43.286	MACH .599+0 .60050 .60030 .60010 .59920 .60000	0X .67430 .69300 .39960 14640 -1.15199 -2.16980	DY 11.02540 11.02380 11.02730 11.04010 11.05910 11.03330 .60000	EETAO .03050 .03090 .02690 .01690 .00140 00620	PHI .00000 .00000 .00000 .00000 .00000	ALPHAM 5.62670 5.62300 5.61750 5.61350 5.60280 5.79360	6ETA -4.95580 -4.95180 -4.95100 -4.94970 -4.96350 -4.95030	CL .38830 .39680 .40830 .42789 .45300 .47180	CD .08990 .09120 .09270 .09459 .09560 .09583	CLH 03020 03000 03420 04000 04220 04960 .00000
----------------------------------------------------------	--------------------------------------------------------------	------------------------------------------------------------------	-------------------------------------------------------------------	--------------------------------------------------------------------------------------	------------------------------------------------------------------	-------------------------------------------------------	--------------------------------------------------------------------------	------------------------------------------------------------	----------------------------------------------------------------	----------------------------------------------------------------	---------------------------------------------------------------------

PAGE 91 TABULATED SOURCE DATA - CA20 DATE OI DEC 75 (RGN136) ( B) DEC 75 ) CARRIER DATA 747/1 02 SI PARAMETRIC DATA REFERENCE DATA -5.008 ALPHAC = 4.000 BETAC = XHRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. 3.000 ELY-OB . ELV-IB = .000 .0000 IN.YC YMRP + LREF . 327.7800 IN. .800 HACH ELEVON . 5,000 ZMRP = 190.8000 IN.ZC BREF - 2348.0400 IN. .000 PHI .000 BETAG = SCALE -.0308 10.000 10.000 DY DX GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.26 RUN NO. 732/ 0 CLH CO PHI **ALPHAH** BETA **BETAO** DY MACH DΧ ALPHAD DZ -.03240 -5.00450 .41860 .08830 5.85030 .02550 .00000 11.92090 .59980 10.86780 -2.314 10.431 .08980 -.03480 .42420 -4.99710 .00000 5.84650 11.91570 .02550 10.62870 .60050 1.200 10.429 -.03550 .43210 .09130 .00000 5.84590 -5.00650 .02320 11.92110 10.32740 5.588 .60040 10.436 .44550 .09300 -.04030 -5.00300 5.03690 .01650 .00000 9.82710 11.92880 .60080 12.949 10.442 - . 94480 .46580 .09500 -5.00920 .00030 .00000 5.83360 11.95600 8.77300 .60060 28.270 10.461 .48120 .09500 -.05150 .00000 5.82690 -5.00680 -.00600 11.96800 .69010 7.73500 43.283 10.477 -.05410 5.82790 -5.01380 .48460 .09+90 .00000 11.97270 -.00720 7.47070 .59970 47.066 10.478 .00000 .00000 .00000 .00006 .00800 .00000 .00000 .00000 .00000 GRADIENT .00000 (RGN137) ( 01 DEC 75 ) CARRIER DATA CA20 747/1 02 51 PARAMETRIC DATA REFERENCE DATA 4.000 BETAC = .000 ALPHAC = XMRP = 1339.9000 IN.XC SREF - 5500.0000 SQ.FT. 3.000 ELV-08 = .000 ELV-IB = .0000 IN.YC LREF = 327.7800 IN. YHRP = .600 ELEVON = 5,000 HACH ZMRP = 190.8080 IN.ZC BREF \* 2348.0400 IN. .000 PHI .000 BETAO = .0300 SCALE = 10.000 DX .000 DY GRADIENT INTERVAL # -1.00/ 4.00 3.35 RUN NO. 727/ 0 RN/L = CD CLLH BETA CL ALPHAH DY BETAO PHI MACH DX DZ ALPHAO .05580 .09480 .37660 5.83340 .03160 .01890 .00000 .59990 .68540 9.98370 -1.72010.539 .04610 .38600 .09620 .02160 5.83250 .02070 .00800 .68770 9.97640 .59910 1.145 10.532 .02970 .09750 .40080 .01050 .01990 .00000 5.82510 9.97520 .38650 .60050 10.533 5.590 .00270 .09890 -.00130 .42339 .000000 5,81720 .01510 9.98050 .60640 -.13250 10.535 13.225 -.02850

.09970

.10010

.00000

-.04480

.00000

.45340

.47380

.00000

.00080

.00000

-.00590

5.88900

5.79920

.00000

.00000

.00000

.00000

.00450

.60050

-.00350

-1.16330

-2.17880

.00000

.60040

.60050

.00000

10.542

10.549

28.323

43.196

GRADIENT

9.99290

10.00910

10.591

43.343

CRADIENT

-2.19830

.00000

.60000

.00080

8.81689

.00000

	CAR	747/1	02 SI	CA	RHIER DATA		(R6N138	1 ( 01 DEC	75 1
REFERENCE	DATA					Р	ARAMETPIC	DATA	
SREF = 5800.0000 SO.FT LREF = 227.7800 IN. BREF = 2349.0400 IN. SCALE = .0200	?.6221 = पद्भाप्त . ). = पद्भाप	8000 IN.XC 1000 IN.YC 1000 IN.ZC				ALPHAC = ELV-18 = ELEVON = EITAO = DX =	.000	BETAC = ELV-08 = MACH = PHI = DY =	.000 3.000 .600 .000
	Cici iio. 731/ 0	RWL =	3.29 GRAD	IENT INTER	VAL = -1.08	O/ 4.80			
ALF(M,O DZ 10.955 -1.917 10.959 1.508 10.991 5.590 12.945 15.088 15.409 20.151 10.975 93.272 10.979 97.051 CRADIENT	HACH	0Y 9.96423 9.95920 9.95380 9.95040 9.93980 9.93720 9.93850 .00000	BETAO .01988 .02020 .01950 .01540 .00380 00380 00500 .00000	PH1 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.65920 5.65440 5.65330 5.63580 5.63580 5.62780 5.62850 .00000		CL .40890 .41480 .42460 .44630 .46520 .48550 .00000		CLH .09150 .03750 .02360 00360 03070 04720 05110 .00000
REFERENCE	DATA					!	PARAMETRIC	DATA	
SREF = 5800.0000 SQ.F LREF = 527.7000 IN. BREF = 2308.0400 IN. SCALE = .0300	YCGP = .	2K.NI 0009 2Y.NI 0000 2X.NI 0008				ALPHAC = ELV-18 = ELEVON = EXTAO = OX =	4.000 .000 5.000 .000	BETAC = ELV-08 = MACH = PHI = DY =	5.000 3.000 .600 .600
	RUN NO. 789/ 0	RNAL =	3.25 GRA	DIENT INTER	.1- = LAVF	19/ 4.68			
ALPHAO DZ 10.550 -1.816 10.555 1.291 10.555 5.717 10.554 13.051 10.539 88.154	MACH 0X .60090 .EC480 .55920 .67080 .50090 .37070 .5883013050 .58640 -1.16046	DY 8.78140 8.78260 8.78550 8.79550 9.80860	ESTAO .64800 .03380 .02850 .02100	PHI .80080 .00080 .00000 .00800	ALPHAN 5.83180 5.82790 5.82240 5.81730 5.80400 5.79690	BETA 5.12510 5.11980 5.10560 5.09230 5.09540 5.10330	CL .38050 .39210 .40820 .42890 .45950	CD .09600 .69110 .09190 .09250 .09310	CLH .09680 .07700 .04739 .00570 04090

.00080

.00000

PAGE 92

.00000

.00000

.00000

5.78690

.00800

.00000

.00888

DATE OI DEC 75	TABULATED SOURCE	DATA - CAS	0					PAG	E 93
	CA20	747/1	02 SI	C.	ARRIER DATA		(RGN14)	01 101 DE	C 75 )
REFEREN	ICE DATA					F	PARAMETRIC	DATA	
						ALPHAC =	4.000	BETAC =	5.000
SREF = 5500.0000 SC		DDO IN.XC				ELV-18 =	.000	ELY-08 *	3.000
LREF * 327.7800 IN		000 IN.YC				ELEVON =	5.000	HACH =	.600
BREF * 2348.0400 IM	i. ZMRP = 190.8	000 IN.ZC				BETAO =	.080	PHI =	.000
SCALE = .0300						DX =	10.000	DY -	10.000
	RUN NO. 733/ U	RN/L =	3.26 GRAD	IENT INTER	WAL = -1.0	0/ 4.08			
ALPHAO DZ	HACH DX	DY	BETAD	PHI	ALPHAH	BETA	CL	CD	CLH
	.60040 10.83530	7.94520	.03540	.00000	5.85460	5.01710	.41260	.09030	.0799
	.60080 10.62330	7.94600	.03110	.00000	5.85280	5.01310	.41860	.09160	.0663
	.60050 10.32500	7.95330	.02550	.00000	5.84960	4.99880	.42820	.09210	.0415
••••	.60000 9.81810	7.95780	.01940	.00000	5.84150	4.99280	.44490	.09270	.0043
10.454 13.081 10.469 28.314	.60080 8.77030	7.96820	.00690	.00000	5.83440	4.99560	.47070	.09300	0409
*	.60080 7.74450	7.97620	.00060	.00000	5.82840	4.99600	.48720	.09340	054
10.478 43.187 10.479 47.015	60040 7.47410	7.97880	00120	.00000	5.83180	4.99630	.49030	.09350	056
GRADIENT	.00000 .00000	.00000	.00000	.00000	.00000	.00000	.00000	.00008	.0001
	CASC	747/1	01 51	c	CARRIER DATA		(RGN14	113 ( 01 D	EC 75 )
REFERE	NCE DATA						PARAHETRIC	DATA	
	1970 - 1970 (	9000 IN.XC				ALPHAC =	4.000	BETAC =	.000
SREF * 5500.0000 S		0000 IN.YC				ELV-18 =	10.000	ELY-08 =	13.000
LREF * 327.7800 1		2000 IN.7C				ELEVON =	5.000	HACH =	.600
BREF = 2348.0400 1	N. ZMAP = 150.0	2000 114.20				BETAC *	.000	PHI =	.000
SCALE0308						DX =	.000	DY =	.000
	RUN NO. 707/ 0	RN/L =	3.25 GRAD	HENT INTER	RVAL = .	00/ 12.00			
c			3.25 GRAD	PHI	ALPHAH	00/ 12.00 BETA	CL	CD	cı:
ALPHAO DZ	HACH DX	ĐΥ	BETAO				CL .42190	CD . 10120	115
10.523 -1.884	MACH DX .60080 .87920	9Y 01429	BETAO .01180	PHI	ALPHAH	BETA			115
10.523 -1.884 10.504 .978	HACH DX .60080 .87920 .59910 .68440	DY 01420 01200	BETAO .01180 .01100	PHI .00000	ALPHAH 5.83190	BETA .09050	.42190	.10120	115 106 126
10.523 -1.884 10.504 .978 10.501 5.523	MACH OX .60080 .87920 .59910 .68440 .59930 .37680	DY 01420 01200 01360	BETAO .01180 .01100 .01060	PHI .00000 .00000	ALPHAH 5.83190 5.83240	BETA .09050 .09020	.42190 .42730	.10120 .10150	115 108 128 153
10.523 -1.884 10.504 .978 10.501 5.523 10.504 13.055	HACH OX .60080 .67920 .59910 .68440 .59930 .37680 .5995013550	DY 01420 01200 01360 00840	BETAO .01180 .01100	PHI .00000 .00000	ALPHAH 5.83190 5.83240 5.82540	BETA .00050 .00020 .00740	.42190 .42730 .44010 .46310 .49560	.10120 .10150 .10270 10460 .10510	115 106 126 163 205
10.523 -1.884 10.504 .978 10.501 5.523	MACH OX .60080 .87920 .59910 .68440 .59930 .37680	DY 01420 01200 01360	BETAO .01180 .01100 .01060 .00810	PHI .00000 .00000 .00000	ALPHAH 5.83190 5.83240 5.82540 5.81690	BETA .08050 .08020 .00740 60060	.42190 .42730 .44010 .46310	.10120 .10150 .10270 10460	C1:115108126163205225009

.00320

-.00011

.00027

-.00350

-.00220

.00000

-2.15990

-.05746

.59920

.08025

42.754

GRADIENT

10.504

CARRIER DATA

(RGHI41) ( OT DEC 75 )

	REFERENC	E DATA							PARAMETRIC	DATA	
LREF =	590.0000 SQ.I 327.7800 IN. 348.0400 IN. .0300	FT. XHRP YMRP ZHRP	· .89	000 IN.YC				ALPHAC = ELEVON = BETAO = DX =	4.000 10.062 5.000 .000	BETAC • ELV-08 = hACH = PHI = DY =	.000 03.030 .000 .000
		RUN NO	. 708/ 0	RN/L =	3.19 GRAD	DIENT INTER	VAL = .0	0/ 12.00			
ALPHAO 14.811 14.784 14.771 14.765 14.762 14.773	DZ .024 3.045 7.498 14.984 29.993 45.117 GRADIENT	MACH .60020 .58940 .59800 .60030 .59970 .60050	0X 26990 47840 76610 -1.29790 -2.32360 -3.35230 06907	DY 01340 01140 01170 00650 .00060 .00450	8ETAO .00750 .00750 .00750 .00470 .00050 00040	PHI .00000 .00000 .00000 .00000 .00000	ALPHAN 5.85280 5.85370 5.85370 5.83950 5.81920 5.80550 ~.00120	BETA 09700 09050 09070 09780 09140 09140 .09078	CL .33240 .34060 .35330 .40150 .45050 .46380 .00421	.08870 .08870 .08980 .09440 .10000 .10340 .10460 .00078	CLH .02890 .02260 01820 09430 15410 19220 00652
			GSA3	747/1	01 SI	c	ARRIER DATA	<b>\</b>	(RSN14	5) ( 01 D6	C 75 )
	referenc	E DATA							PARAMETRIC	BATA	
LREF =	REFERENC 500.0000 SQ. 327.7800 IN. 348.0480 IN. ,0300	FI. XHEP YHEP	0	008 IN.XC 008 IN.YC 000 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = CX =	4.000 -10.000 5.000 .000	BETAC = ELV-08 = HACH = PHI = BY =	.000 -7.000 .600 .000
LREF = 8	500.0000 SQ. 327.7800 IN. 348.0400 IN.	FI. XHEP YHEP	0 - 190.8	000 IN.YC	3.25 GRA	DIENT INTER	RVAL = "I	ELV-18 = ELEVON = BETAO =	4.080 -10.000 5.000	BETAC = ELV-08 = HACH = PHI =	000 <b>.7-</b> 00a. 000.
LREF = 8	500.0000 SQ. 327.7800 IN. 348.0400 IN.	FT. XISTP YNSTP ZMRP	0 - 190.8	000 IN.YC 000 IN.ZC	3.26 GRA EETAO .01320 .01170 .01100 .00500	PHI .08800 .08000 .08000 .08000	ALPHAR 4.87430 5.87190 5.65680 5.65669	ELV-18 = ELEVON = BETAO = DX =	4.080 -10.000 5.000	BETAC = ELV-08 = HACH = PHI =	000 <b>.7-</b> 00a. 000.

.00000

J0000.

5.84880

-.00114

.00320

-.00016

15.438

30.319

45.332

GRADIENT

-1.32290

-2.33750

-3.36420

-.06850

.60000

.60000

.60030

.00001

14.823

14.816

14.812

14.814

PAGE 95 TABULATED SOURCE DATA - CA28 DATE OI DEC 75 (RGN143) | 1 01 DEC 75 | CARRIER DATA CA28 747/1 01 51 PARAMETRIC DATA REFERENCE DATA .000 4.000 BETAC = ALPHAC = 1339.9000 IN.XC XHRP SREF \* 5500.0000 SQ.FT. RUD-L -15.000 15.000 RUD-U = .0000 IN.YC YMRP 327.7800 IN. AILRON = .000 ELEVON \* 5.000 190.8000 IN.ZC ZMRP = BREF . 2348.0408 IN. .000 BETAO . .000 PHI SCALE = .0300 .000 .000 DY DX GRADIENT INTERVAL = .00/ 12.00 3.25 RUN NO. 711/ 0 RN/L = CLH CD **BETA** CL ALPHAH BETAO PHI DY HACH DX ΟZ ALPHAO .06900 .09690 .02080 .37970 5.83170 .00000 01000. -.00790 .901BC .60040 -2.028 10.504 .07590 .38320 .09750 5.83280 .02910 .00820 .00000 -.00660 .70250 .931 .60010 10.485 05990. .05170 5.82470 .02230 .39860 .00730 .00000 -.00470 .38950 .59930 10.480 5.560 .02030 .10150 .02310 .42170 .06000 5.81620 -.00170 .08590 -.11140 .60060 12.957 10.496 -.01320 .45410 .10310 5.80430 .03860 .00160 .00000 -.00090 .59980 -1.12660 27.883 -.02940 10.495 .10340 5.79700 .03140 .47410 .00000 .00120 -2.16480 .00170 .60040 42.996 10.513 .00037 -.00523 .00333 -.80147 -.00175 -.00019 .00000 -.05762 .00041 -.08017 GRADIENT GRADIENT INTERVAL = .00/ 12.00 3.23 RN/L = RUN NO. 712/ 0 CLH CD **ALPHAH** BETA CL PHI **BETAO** DY DΧ HACH DΖ ALPHAO .19430 .29250 .08570 .01490 .00000 5.86580 -.28590 -.00380 .00380 .59970 14.850 .267 .18100 .30220 .08730 5.86000 .02250 .08000 -.00180 .00300 .60060 -.49550 3.331 14.835 .15250 .09080 .32230 5.85040 .02240 .00000 .00300 -.00110 -.80040 .59990

.00190

-.00120

-.00280

-.00010

.00080

.00670

.00888

.00034

.09350

.03370

.00090

-.00563

.36000

.40860

.44070

.00401

.02460

.02360

.03150

.00093

5.83970

5.02090

5.80920

-.00206

.00000

.00000

.00000

.00000

.09660

.10060

.10210

CA20 747/1 02 51

.00009

**GRADIENT** 

-.0583B

.00049

-.00029

.001.0

-.00169

CARRIER DATA

.00103

.00448

.00082

-.00559

(RGN144) ( 01 DEC 75 )

	REFERENCE	DATA							PARAHETRIC	DATA	
LREF .	500.0000 SO.F 327.7800 IN. 348.0400 IN. .0380	YMRP	• .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = RUO-U = ELEVON = BETAO = DX =	4.000 15.000 5.000 .000	BETAC = RUC-L = AILRON = PHI = DY =	.600 15.000 .000 .000
		RUN NO.	725/ 0	RN/L =	3.35 GR	ADIENT INTER	RVAL = -1.0	00/ 4.60			
ALPHAO 10.493 10.490 16.498 10.503 10.527 16.533	DZ -2.198 .873 5.397 12.953 28.053 42.969 GRADIENT	MACH .59920 .60080 .60040 .60080 .59970 .00080	DX .65940 .65950 .34600 17060 -1.20520 -2.22510 .00000	DY 02120 01790 01590 01280 00340 00150 .00000	00000 00200 005700 00500 00400 00400 00100 00000	.00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.03560 5.03230 5.02620 5.02090 5.81010 5.00140	8ETA .04360 .04430 .04540 .04640 .05460 .05530	CL .38630 .39580 .41240 .43330 .46330 .48080	.10010 .10130 .10130 .10280 .10410 .10480 .10480	CLM .01648 .01310 00410 02030 03659 04560 .00000
			CAZO	747/1	01 SI	(	CARRIER DATA	۸.	(RGN14	5) (O) DE	EC 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	500.0000 60.F 327.7800 IN. 348.0400 IN. .0300	T. XISO YMRP ZMRP	.00	000 IN.XC 000 IN.YC 100 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.080 .000 .000 .000	SETAC = ELV-DB = HACH = PHI = DY =	000. 000. 000. 000.
		RUN NO	. 719/0	RN/L =	3.37 GF	ADIENT INTE	RVAL = .	12.00			
ALPHAD 10.508 10.485 10.479 10.493 10.514	D2 -2.315 .910 5.273 12.814 27.985 42.855 GRADIENT	MACH .59350 .60910 .60050 .59390 .59390 .60060	0X .86160 .64410 .34780 -17030 -1.20940 -2.22930 06790	DY 02240 01560 01470 01270 00700 06590 .00021	.01230 .01010 .00900 .00720 .00240 .00230	PHI .00000 .00000 .00000 .00000 .00000	ALPHAH 5.83900 5.83720 5.83290 5.82510 5.81500 5.81080 00093	BETA .01600 .00790 .00740 .00680 .01410 .01410	CL .39960 .40530 .41720 .43890 .46690 .48490	.09910 .09920 .10010 .10090 .10120 .10090	CLH 00260 00260 01400 03500 +.05470 06160 00261
		RUN NO	. 720/ 0	RN/L =	3.38 C	RADIENT INTE	RVAL = .	00.12.60			
ALPHA0 14.834 14.809 14.796 14.787 14.785	02 .261 3.316 7.691 15.322 30.199 45.162	HACH .59990 .60070 .60060 .60020 .60020	0X 35440 56180 66160 -1.39380 -2.40060 -3.43280	0Y - 01240 - 01030 - 00870 - 00440 - 00150	8ETAO .00660 .00810 .00850 .00920 00110	PH1 .60000 .00000 .00000 .00000	ALPHAN 5.8710 5.86790 5.85940 5.84680 5.83010 5.82200	62TA .00780 .00710 .01500 .00720 .01390	CL .31260 .32230 .34540 .37970 .42570 .45400	.08690 .08690 .08870 .09290 .09540 .09960	CLH .12590 .12480 .08520 .03780 003310

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

PAGE 97

DAIL OF DE			.,								
			CA20	747/1	01 SI	(	CARRIER DAT	ΓA	(RGN14	61 1 01 DE	C 75 1
	REFERENC	E DATA							PARAMETRIC	DATA	
	500.0000 SQ. 327.7800 IN.			00 IN.XC				ALPHAC = ELV-18 =	4.000	BETAC = ELV-0B =	.000 3.000
	348.0400 IN.		•	00 IN.ZC				ELEVON =	10.000	HACH =	.600
		Ziku	- 120.00	86 14.20				BETAO =	.000	PHI =	.000
SCALE =	.0300							DX =	.000	υY =	,000
				•				<b></b>		-	1000
		RUN NO	. 714/ 0	RN/L =	3.32	GRADIENT INTE	RVAL =	.00/ 12.00			
ALPHAO	DZ	MACH	ĐΧ	DY	BETAD	PHI	ALPHAH	BETA	CL.	CO	CLH
10.553	-1.753	.60000	.91190	01320	.0116		5.84170	.00730	.35800	.08900	. 14090
10.538	1.319	.59950	.70500	01080	.0106		5.84200	00088	. 36350	.08990	. 13160
10.533	5.976	.59920	.39120	00710	.0086		5.83500	00140	.37640	.09180	.10980
18.546	13.370	.59940	11340	00420	.6071		5.82500	00930	.40320	.09540	.05600
10.559	28.434	.59990	-1.13730	00290	.0023		5.81090	.01370	.44120	.09810	.00240
10.556	43.399	.60040	-2.16030	.80340	.0016		5.80210	00170	.46510	.09910	02560
10.525	GRADIENT	00006	06738	.00079	0003		00158	00013	.00277	.00041	00468
		RUN NO	. 715/ 0	RN/L =	3.26	GRADIENT INTE	RVAL =	.00/ 12.00			
ALPHAO	DZ	MACH	ĐΧ	ĐY	SETAC	) होता ।	ALPHAH	BETA	CL	CD	CLH
14.836	.243	.60050	21980	.00160	.0054	000000	5.87510	00800	.27270	.07630	.25730
14.814	3.412	.59960	43920	.00680	.0080	00000.	5.87140	00830	.28280	.07920	.23360
14.803	7.911	.60000	7450C	.00770	.0052	00000. 09	5.86270	.00650	.30010	.08180	.20060
14.796	15.416	.60060	-1.25670	.01250	.0040		5.84880	60140	.33830	.08970	.13770
14.790	30.262	.60080	-2.2707C	.01570	0009		5.02830	00970	.39370	.09520	.05350
14.791	45.331	.59950	-3.30390	.01700	0029		5.81480	80190	.43030	.09730	.00780
	GRADIENT	00005	06847	.80076	0001		00154	.00198	.00359	.08071	00739

10.687

43.386

GRADIENT

.70020

.00011

-2.04590

-.06688

.00670

.00023

-.00150

-.00027

			CA20	747/ L	01 SI	C	ARRIER DATA		(RGN14	7) ( 01 DE	C 75 )
	REFERENC	E DATA							PARAJETRIC	DATA	
SREF • 5	500.0000 <b>5</b> 0.	FT. XMRP	• 1339.90	00 IN.XC				ALPHAC =	4.080	BETAC =	.000
LREF =	327.7800 IN.	YHRP	.08	00 IN.YC				ELV-IB .	.000	ELV-08 =	3.600
BREF = 2	348.0400 IN.	ZMRP	<b>=</b> 190.68	00 IN.ZC				ELEVON =	10.000	HACH =	.300
SCALE =	.0309							EETAO =	.000	PHI *	.000
								DX *	.000	DY =	.000
		RUN NO	. 717/ 0	RN/L -	1.89 GRA	DIENT INTER	RVALC	8/ 12.00			
ALPHA0	ρz	MACH	DX	ĐY	BETAO	PHI	ALPHAH	BETA	CL	හ	CLH
10.141	-2.619	.25950	.81180	.00220	.00350	.00000	5.83780	01830	. 34340	.08290	.09 <b>780</b>
10.136	. 258	.25970	.61310	.00380	.00280	.00000	5.03780	01850	. 34430	.08320	.09790
10.135	4.872	.30050	.30110	.00390	.00260	.00000	5.83370	01870	.3546D	.08490	.05480
10.139	12.202	.29950	20310	.00500	.00180	.00000	5.82540	01890	.37780	.08780	.01320
10.139	28.955	.29928	-1.21700	.06550	.00010	.00000	5.01450	01120	.40900	.09350	02600
10.142	42.221	.30030	-2.26320	.00710	+.00030	.08800	5.60700	01130	.42890	05180.	86410
	GRADIENT	.00017	06828	50000.	00004	.00000	60083	88884	.00232	.00037	00505
			CAEG	747/1	01 SI	c	ARRIER DATA		(RGN14	8) (0) 08	C 75 )
	REFERENC	E DATA							PARAHETRIC	DATA	
SREF = 5	500.0800 SQ.	FT. XMRP	<ul><li>1339.90</li></ul>	00 IN.XC				ALPHAC =	4.000	BETAC =	.000
	327.7800 IN.	YKRP		OD IN.YC				ELV-IB =	.000	ELV-08 =	3.000
	348.0400 IN.			00 IN.ZC				ELEVON =	10.000	HACH =	.700
SCALE =	.0300							EETAO -	.030	PHI =	.000
								DX =	.000	DY -	.900
		RUN NO	. 716/ 8	RN/L =	3.54 GRA	DIENT INTER	RVAL0	0/ 12.00			
ALPHAO	OZ	MACH	ĐΧ	DY	BETAO	PHI	ALPHAH	BETA	CL	CO	CLH
10.694	-1.671	.69350	1.00630	00650	.00800	.00800	5.84060	.00160	.37100	.09250	. 18210
10.676	1.362	.69340	.80310	00020	.00550	.00800	5.84050	00550	.37740	.09390	.16980
10.669	5.761	.69990	.50690	.00080	.00430	.00000	5.83300	.00040	.39180	.09610	.14860
10.672	13.240	.69970	.00210	.80210	.00320	.00000	5.82130	00760	.42260	.09990	.09110
10.678	28.136	.69950	-1.01140	.80480	00020	.00000	5.80840	01510	.46330	.10330	.03430

5.75430

-.00170

.00000

.00000

-.00790

.00157

.48930

.00327

.10450

.00052

.00790

-.60482

# TARLE ATED SOURCE DATA - CA20

DATE OF DE	75	TABUL	ATED SOURCE	DATA - CA	20					****	
			CA20	747/1	O1 S1	C	URRIER DATA		(RCN149	n tolde	C 75 )
	REFERENCE	ATAG 3						f	PARAHETRIC	DATA	
LREF -	500.0000 SQ. 327.7800 IN. 348.0400 IN. .0300	FT. XMRP YMRP ZMRP	= .00	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = RUO-U = ELEVON = BETAO = DX =	.000 5.000 .009	BETAC = RUD-L = ATLRON = PHI = DY =	.000 .000 -10.000 .000
		RUN NO	. 722/ 0	RN/L =	3.33 GRA	DIENT INTER	VAL = .00	12.00			
ALPHAO 10.503 10.487 10.482 10.481 10.494 10.501	D2 -2.010 1.016 5.470 12.919 28.155 42.900 GRADIENT	HACH .59360 .80000 .60000 .59940 .59990 .60060	0x .89090 .68680 .39360 12140 -1.16420 -2.17720 06908	DY .25100 .25740 .26120 .26800 .27680 .00085	BETAO08650090500937009810107601103000072	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.85820 5.85620 5.85130 5.84070 5.82880 5.82100 00110	BETA .01650 .01730 .01560 .00180 .01890 00038	CL .37980 .38570 .39930 .42320 .45680 .47730	.00180 .09180 .09290 .0960 .0960 .0960 .09983	CLH .07900 .07248 .05390 .01450 02620 04280 04281
ALPHAO 14.792 14.780 14.769 14.755 14.753	02 .127 2.655 7.573 15.007 30.023 45.056 GRADIENT	HACH .60030 .59940 .59960 .60020 .60090 .60010	DX 27480 46850 79580 -1.29790 -2.32950 -3.36330 06991	0Y .24900 .25950 .26120 .26930 .28280 .28550	GETAO 89720 09940 10000 10580 11230	PH1 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.88580 5.88230 5.87690 5.86080 5.84740 5.83310 ~.00119	BETA .01450 .01270 .02520 .01260 .00450 .00650	CL .30330 .30750 .32690 .36140 .41220 .44470 .00356	CD .08350 .08390 .08760 .09120 .09570 .09780 .00058	CLH .16950 .17730 .13820 .09030 .02160 01330 00465

PAGE 99

			CAE8	747/0	OI SI ATSB	EETA	CARRIER DATA		(AGNO+	D) ( Ø1 DE	: 75 1
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF = 3	REFERENCE 500.6000 SQ.F 527.7800 IN. 548.0480 IN. .0300	T, XHRP YHRP	00	BB IN.XC BB IN.YC BB IN.ZC				ALPHAC * ELV-18 = ELEVON = BETAO = DX =	.800 .000 5.009 .009	SETAC = ELV-OB = HACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO.	619/ 0	RN/L =	3.37 GRA	DIENT INTE	RVAL = -1.0	10/ 4.60			
			ΩX	DY	BETAD	PHI	ALPHAH	BETA	CY	CLN	CSL
ALPHAO	DZ	MACH	3.60120	03230	.01640	.08889	1.94510	.05340	00580	.00060	.00129
0.543	1.997	.59350	3.59700	02820	.01400	.00000	1.94340	.05390	00580	.00010	.00130
8.536	4.846	.60050	3.59490	02610	.01230	.00000	1.94340	.05390	00580	01000.	.00130
0.531	9.288	.59930	3.59790	02240	.00240	.00800	1.92880	.06010	00820	.00190	.00080
8.629	17.091	.59930	3.60800	01460	.00500	.00000	1.91450	.05980	00920	.00230	.08060
6.525	31.607	.59930	3.61500	01210	.60510	.00000	1.91010	.05200	00940	.00240	.03550
8.523	35.614 GRADIENT	.60800 .00800	.00800	.00000	.00000	.00000	.00000	.08880	.00000	.00000	.00000
			CASO	747/0	01 SI AT38	e ETA :	CARRIER DATA	A.	*AGNON	13 ( 01 DE	C 75 )
			•								
	REFERENCE	E DATA							PARAMETRIC	DATA	
	REFERENCE	E DATA									ODA.
sref = 6	REFERÊNCE		<b>- 1339.</b> 90	300 IN.XC				ALPHAC =	4.000	BETAC =	.00 <b>0</b>
			= 1339.90 = .00	000 IN.YC				ELV-18 =	4.000 000	BETAC = ELV-08 =	3.000
LREF .	500.0000 <b>50.</b> 6	FT. XBRP	• 1339.SC					ELV-18 =	4.000 000. 5.000	BETAC = ELV-08 = HACH =	3.000
LREF .	500.0000 SQ.6 227.7800 IN.	71. XMRP YMRP	• 1339.SC	000 IN.YC				ELV-18 = ELEVON = BETAO =	4.000 .000 5.000	BETAC = ELV-OB = HACH = PHI =	3.000 .600 .000
LREF * 3	500.0000 50.6 327.7800 IN. 348.0400 IN.	71. XMRP YMRP	• 1339.SC	000 IN.YC				ELV-18 =	4.000 000. 5.000	BETAC = ELV-08 = HACH =	3.000
LREF * 3	500.0000 50.6 327.7800 IN. 348.0400 IN.	FT. XMRP YMRP ZMRP	• 1339.SC	000 IN.YC	3.27 GRA	WIENT INTE	ERVAL = -1.	ELV-18 = ELEVON = BETAO = OX =	4.000 .000 5.000	BETAC = ELV-OB = HACH = PHI =	3.000 .600 .000 .000
LREF	500.0000 <b>50.6</b> 227.7800 IN. 348.0400 IN. .0300	FT. XXXP YMEP ZMRP RUN NO.	• 1339.90 • 00 • 190.80	180 IN.YC 180 IN.ZC	3.27 GR/ BETAG	WIENT INTE	ERVAL = ~1.	ELV-18 = ELEVON = BETAO = DX =	4.000 .000 5.000 .000 .000	BETAC = ELV-OB = HACH = DY =	3.000 .600 .000 .000
LREF = 2. BREF = 2. SCALE =	500.0000 SQ.6 227.7800 IN. 348.0400 IN. .0300	FT. XMRP YMEP ZMRP RUN NO. HACH	- 1339.80 00 - 190.80 - 621/ 0	090 IN.YC 000 IN.ZC RN/L =				ELV-18 = ELEVON = BETAO = DX =  00/ 4.00  BETA .G6160	4.000 .000 .000 .000 .000	BETAC = ELV-08 = HACH = DY =	3.000 .600 .000 .000
LREF = 2: BREF = 2: SCALE = ALPHAO 12:656	500.0000 SQ.6 327.7800 IN. 348.0400 IN. .0300 DZ .965	FI. XMPP YMPP ZMRP RUN NO. HACH .59940	- 1339.90 - 00 - 190.86 - 621/ 0 - 0x - 05780	RN/L =	BETAO	PHI	ALPHAL	ELV-18 = ELEVON = BETAO = DX =	4.000 .000 5.000 .000 .000	BETAC = ELV-08 = HACH = DY =  CLH .00030 .00090	3.000 .600 .000 .000
ALPHAO 12.656 12.650	500.0000 SQ.6 227.7800 IN. 348.0400 IN. .0300 OZ .965 4.780	FT. XMPP YMPP ZMRP  RUN NO.  HACH .59940 .59960	- 1339.50 - 00 - 190.86 - 190.86 - 190.86 - 190.86	000 IN.YC 000 IN.ZC RN/L • 0Y 01660 01570	OAT38	PH1 .08800	ALPHAI 5.8331 J	ELV-18 = ELEVON = BETAO = DX =  00/ 4.00  BETA .G6160	4.000 .000 5.000 .000 .000 CY 00820 00870	BETAC = ELV-08 = HACH = DY =  CLH .00030 .00090 .00140	3.000 .600 .600 .600 .600 .600 .60086 .60086 .60078
ALPHAO 12.656 12.650 12.648	500.0000 SQ.6 227.7800 IN. 348.0400 IN. .0300 OZ .965 4.780 8.551	FT. XPRP YMRP ZMRP FUN NO. MACH .59940 .59960	- 1339.90 - 160.80 - 160.80 - 05780 - 33520 - 59320	RN/L -  DY0166001660	BETAO .00690 .00200	9H1 .08900 .00000	ALPHAL 5.83313 5.88950	ELV-18 = ELEVON = BETAO = OX = OX 4.00 BETA .GB160 .GE950	4.000 .000 5.000 .000 .000 .000	BETAC = ELV-08 = HACH = DY =  CLH .00030 .00090 .00140 .00200	3.000 .600 .600 .600 .600 .60086 .60086 .60080 .60030
ALPHAO 12.656 12.650 12.651	500.0000 SQ.6 327.7800 IN. 348.0400 IN. .0300 OZ .965 4.780 8.551 15.655	FT. XPRP YMRP ZMRP FUN NO. MACH .59940 .59960 .59980 .60020	- 1339.90 - 160.86 - 160.86 621/ 0 0x 06780 33520 59320 -1.07500	200 IN.YC 200 IN.ZC RN/L = DY 01660 01060 00980	BETAO .00800 .00800 .00800	941 .08080 .00000 .00008	ALPHAV 5.83313 5.82950 5.82270	ELV-18 = ELEVON = BETAO = DX =  007 4.00  BETA .GB160 .GE850 .GE850	4.000 .000 5.000 .000 .000 CY 00820 00870	BETAC = ELY-OB = MACH = DY =  CLH .00030 .00090 .00140 .00200	3.000 .600 .000 .000 .000 .00080 .00080 .00030 .00030
ALPHAO 12.656 12.650 12.651 12.672	02 .965 4.780 02 .965 4.780 03 .965 9.780 8.551	FI. XMPP YMEP ZMRP  GUN NO.  MACH .59940 .59960 .59960 .60020 .60070	- 1339.50 - 160.80 - 160.80 - 05780 - 33520 - 59320 - 1.07500 - 2.11910	RN/L =  DY0166001570016600098000380	BETAO .00690 .00350 .00330 .00120	9H1 .00080 .0000 .0000 .0000	ALPHAV 5.83513 5.82570 5.82270 5.81040	ELV-18 = ELEVON = BETAO = OX =  OY 4.00  EETA . GE160 . GE890 . O4540 . O5270	4.000 .000 5.000 .000 .000 CY 00820 00870 00849	BETAC = ELY-OB = HACH = DY =  CLH .00030 .00090 .00090 .00000	3.000 .600 .000 .000 .000 .00080 .00080 .00030 .00000
ALPHAO 12.656 12.650 12.651	500.0000 SQ.6 327.7800 IN. 348.0400 IN. .0300 OZ .965 4.780 8.551 15.655	FT. XPRP YMRP ZMRP FUN NO. MACH .59940 .59960 .59980 .60020	- 1339.90 - 160.86 - 160.86 621/ 0 0x 06780 33520 59320 -1.07500	200 IN.YC 200 IN.ZC RN/L = DY 01660 01060 00980	BETAO .00690 .00350 .00330 .00120	PH1 .08890 .08890 .88890 .88890 .88890	ALPHAV 5.83313 5.8297/0 5.82270 6.81040 5.78490	ELV-18 = ELEVON = BETAO = OX =  OX =  OX =  OX 4.00  EETA .66160 .06890 .04540 .05270 .05016	4.000 .000 5.000 .000 .000 CY 00820 00970 06949 01050	BETAC = ELY-OB = MACH = DY =  CLH .00030 .00090 .00140 .00200	3.000 .600 .000 .000 .000 .00080 .00080 .00030 .00030

.00000

.00000

.00000

.00000

12.678

60.229

GRADIENT

.00000

.00000

.00000

.00000

.00000

DATE OI DEC 75

TABULATED SOURCE DATA - CARD

PAGE 101

DATE OI DEC 75	INDUCATED SOOK	<b></b>	•						
	CAZ	0 747/0	01 SI AT38	AT39 C	ARRIER DATA		(AGNO42	er corde	: 75 )
	·05 3151						PARAHETRIC	DATA	
REFEREN	ICE DATA								
	1270	9000 IN.XC				ALPHAC =	8.080	BETAC =	.000
SREF = 5500.0000 50	•••	0000 IN.YC				ELV-IB =	000	ELV-08 =	3.000
LREF = 327.7800 1N	1, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8000 IN.ZC				ELEVON -	5.008	MACH =	.600
BREF = 2348.0400 11	1. ZHRP = 190.	8000 14.10				BETAD .	.000	PHI =	.000
SCALE = .0300						DX =	.000	OY =	.000
. •	RUN NO. 629/ 0	RN/L =	3.33 GRAI	DIENT INTER	RVAL = -1.0	0/ 4.00			
	RUN NO. 520/ 0	MAY -	J.33						
	HACH DX	DY	BETAO	PHI	<b>ALPHAH</b>	BETA	CY	CLN	CSL.
ALPHAO DZ	.59950 -2.43120	02120	.00530	.00000	9.76940	.03940	01090	.00150	.00000
16.829 3.116	.59960 -2.83530	01980	.00420	.00000	9.76310	. 05540	01840	.00110	.00010
16.828 5.039	,	00890	.00070	.00000	9.74570	.06220	01230	.00260	08036
16.849 10.388		.00550	00220	.00000	9.73110	.06210	01270	.00290	00030
16.864 32.998		.01220	00550	.00000	9.72170	.05490	01190	.00260	00040
16.870 49.151		.02870	01480	.00000	9.71610	.06290	01130	.00250	00020
16.886 63.071	••••	.00000	.00000	חר ומם.	.00000	.00000	.00200	.00000	.00000
GRADIENT	.00000 .00000	.00000		•					
	CA	20 747/0	01 S1 AT3B	AT39	CARRIER DATA		(AGNB4)	31 ( 01 DE	C 75 1
OFFEDS	-	20 747/0	01 S1 AT38	AT39	CARRIER DATA		(AGN04		C 75 1
REFERE	CAI	20 747/0	01 S1 AT3B	AT39	CARRIER DATA		PARAHETRIC	: DATA	
	NCE DATA	20 747/0 .9000 IN.XC	01 S1 AT3B	AT39	CARRIER DATA	ALPHAC =	PARAHETRIC	DATA BETAC =	-5.000
SREF = 5500.0000 S	NCE DATA		OI SI AT3B	AT39	CARRIER DATA	ALPHAC = ELV-18 =	PARAHETRIC 4.000	BETAC = ELV-08 =	-5.000 3.000
SREF = 5500.0000 S LREF = 327.7800 l	NCE DATA Q.FT. XMRP = 1339 N. YMRP =	.9000 IN.XC	OI SI AT3B	AT39	CARRIER DATA	ALPHAC = ELV-18 = ELEVON =	PARAHETRIC 4.000 .000 5.000	BETAC = ELV-OB = HACH =	-5.000 3.000 .600
SREF = 5500.0000 S LREF = 327.7800 t BREF = 2348.0400 t	NCE DATA Q.FT. XMRP = 1339 N. YMRP =	.9000 IN.XC	OI S1 AT38	AT39	CARRIER DATA	ALPHAC = ELV-1B = ELEVON = BETAO =	PARAHETRIC 4.000 .000 5.000 -5.000	BETAC = ELV-0B = HACH = PHI =	-5.000 3.000 .600
SREF = 5500.0000 S LREF = 327.7800 l	NCE DATA Q.FT. XMRP = 1339 N. YMRP =	.9000 IN.XC	OI S1 AT3B	AT39	CARRIER DATA	ALPHAC = ELV-18 = ELEVON =	PARAHETRIC 4.000 .000 5.000	BETAC = ELV-OB = HACH =	-5.000 3.000 .600
SREF = 5500.0000 S LREF = 327.7800 t BREF = 2348.0400 t	NCE DATA 10.FT. XMRP = 1339 N. YMRP = N. ZMRP = 190	.9000 IN.XC .0800 IN.YC .8000 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = OX =	PARAHETRIC 4.000 .000 5.000 -5.000	BETAC = ELV-0B = HACH = PHI =	-5.000 3.000 .600
SREF = 5500.0000 S LREF = 327.7800 t BREF = 2348.0400 t	NCE DATA Q.FT. XMRP = 1339 N. YMRP =	.9000 IN.XC .0800 IN.YC .8000 IN.ZC			CARRIER DATA	ALPHAC = ELV-1B = ELEVON = BETAO = OX =	PARAHETRIC 4.000 .000 5.000 -5.000	BETAC = ELV-OB = MACH = PHI = DY *	-5.000 3.000 .600 .000
SREF = 5500.0000 S LREF = 327.7800 t BREF = 2348.0400 t SCALE = .0300	NCE DATA  10.FT. XMRP = 1339  N. YMRP = 190  N. ZMRP = 190  RUN NO. 622/ 0	.9000 IN.XC .0000 IN.YC .8000 IN.ZC	3.3% GRA	DIENT INTE		ALPHAC = ELV-1B = ELEVON = BETAO = OX =	PARAHETRIC 4.000 .000 5.000 -5.000	BETAC = ELV-OB = HACH = PHI = DY +	-5.000 3.000 .600 .000
SREF = 5500.0000 S LREF = 327.7800 I BREF = 2348.0400 I SCALE = .0380	NCE DATA  10.FT. XMRP = 1339  N. YMRP = 190  N. ZMRP = 190  RUN NO. 622/ 0  MACH DX	.9000 IN.XC .0000 IN.YC .8000 IN.ZC	3.34 GRA DETAO	OIENT INTE	(RVAL = −1.	ALPHAC = ELV-1B = ELEVON = BETAO = OX =	PARAMETRIC 4.000 .000 5.000 -5.000 .000	BETAC = ELV-08 = HACH = DY +	-5.000 3.000 .600 .000 .000
SREF = 5500.0000 S LREF = 327.7800 I BREF = 2348.0400 I SCALE = .0380 ALPHAO DZ 12.544 1.130	RUN NO. 622/ 0  MACH DX  .50.FT. XMRP = 1339  N. YMRP = 190  RUN NO. 622/ 0	.9000 IN.XC .0000 IN.YC .8000 IN.ZC RN/L *	3.34 GRA BETAO -5.21950	DIENT INTE	RVAL = -1. ALPHAH	ALPHAC = ELV-18 = ELEVON = BETAO = OX =	PARAMETRIC 4.000 .000 5.000 -5.000 .000	BETAC = ELV-08 = HACH = PHI = DY + CLH = .0175002310	-5.000 3.000 .600 .000 .000
SREF = 5500.0000 S LREF = 327.7800 I BREF = 2340.0400 I SCALE = .0300 ALPHAO DZ 12.544 1.130 12.623 4.337	RUN NO. 622/ 0  MACH DX .5993033720	.9000 IN.XC .0000 IN.YC .8000 IN.ZC RN/L = BY I.40900 I.40240	3.34 GRA BETAO -5.21950 -5.2240	OIENT INTE PH1 .00000 .00000	RVAL * -1. ALPHAH 5.83590	ALPHAC = ELV-18 = ELEVON = BETAO = OX = OO/ 4.00 BETA -4.98500	PARAMETRIC 4.000 .000 5.000 -5.000 .000	BETAC = ELV-08 = HACH = DY +	-5.000 3.000 .600 .000 .000
SREF = 5500.0000 S LREF = 327.7800 I BREF = 2348.0400 I SCALE = .0300 ALPHAO DZ 12.694 1.130 12.623 4.337 12.617 8.510	RUN NO. 622/ 0  MACH DX .5993033720	.9000 IN.XC .0000 IN.YC .8000 IN.ZC RN/L * DY I.40900 I.40240	3.34 GRA DETAO -5.21950 -5.22240 -5.22820	DIENT INTE PH1 .0000 .00060 .00000	ALPHAK 5.83690 5.82570	ALPHAC = ELV-IB = ELEVON = BETAO = OX =  CO/ 4.00  BETA -4.98500 -4.57960	PARAMETRIC 4.000 5.000 5.000 -5.000 .000 CY .09980 .10510	BETAC = ELV-OB = MACH = PHI = DY • CLH = .01750023100214001990	-5.000 3.000 .600 .000 .000  CSL .01500 .01610 .01670
SREF = 5500.0000 S LREF = 327.7800 I BREF = 2348.0400 I SCALE = .0300  ALPHAO DZ 12.694 1.130 12.693 4.337 12.617 8.510 12.618 16.134	RUN NO. 622/ 0  MACH DX .5992011230 .59970 -1.14280	.9000 IN.XC .0000 IN.YC .8000 IN.ZC RN/L = DY I.40900 I.40240 I.42200	3.34 GRA BETAO -5.21950 -5.2240 -5.22820 -5.23970	DIENT INTE PHI .0000 .0000 .0000	RVAL * -1. ALPHAH 5.03690 5.02570 5.02070	ALPHAC = ELV-18 = ELEVON = BETAO = OX = OO/ 4.00  BETA = 4.98500 = 4.57960 = 4.99110	PARAMETRIC 4.000 5.000 5.000 -5.000 .000 CY .09980 .10510	BETAC = ELV-08 = HACH = DY *  CLH017500231002140	-5.000 3.000 .600 .000 .000  CSL .01500 .01610 .01670 .01650
SREF = 5500.0000 S LREF = 327.7800 I BREF = 2340.0400 I SCALE = .0300 ALPHAO DZ 12.644 1.130 12.623 4.337 12.617 8.510 12.618 16.134 12.630 31.004	RUN NO. 622/ 0  MACH DX .59930 -33720 .59970 -1.14280	.9800 IN.XC .0800 IN.YC .8000 IN.ZC RN/L •  BY I.4090 I.40240 I.42200 I.44840 I.47370	3.34 GRA BETAO -5.21950 -5.22240 -5.22820 -5.23970 -5.24900	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.83690 5.82570 5.82070 5.80320 5.79220	ALPHAC = ELEVON = BETAO = OX =	PARAMETRIC 4.000 5.000 -5.000 -6.000 CY .09960 .10510 .09960	BETAC = ELV-OB = MACH = PHI = DY • CLH = .01750023100214001990	-5.000 3.000 .000 .000 .000  CSL .01500 .01610 .01670 .01650 .01650
SREF = 5500.0000 S LREF = 327.7800 t BREF = 2348.0400 t SCALE = .0300  ALPHAO DZ 12.694 1.130 12.623 4.337 12.617 8.510 12.618 16.134 12.630 31.004 12.635 46.251	RUN NO. 622/ 0  MACH DX .59920 -114286 .59920 -2.16526 .59950 -3.21646	.9000 IN.XC .0000 IN.YC .8000 IN.ZC RN/L • DY I.4090 I.40240 I.42200 I.44840	3.34 GRA BETAO -5.21950 -5.22840 -5.23870 -5.23970 -5.24900 -9.25230	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.83590 5.82570 5.82570 5.80320 5.79220 5.79220 5.78510	ALPHAC = ELEVON = BETAO = OX = OX +.00  BETA -4.98500 -4.57960 -4.98110 -4.98220 -4.98470	PARAMETRIC 4.000 5.000 5.000 -5.000 .000 CY .09980 .10510 .09900 .09450	BETAC = ELV-OB = MACH = PHI = DY *  CLH = .01750 = .02310 = .02140 = .01990 = .01710 = .01910	-5.000 3.000 .600 .000 .000  CSL .01500 .01610 .01670 .01650
SREF = 5500.0000 S LREF = 327.7800 I BREF = 2348.0400 I SCALE = .0300 ALPHAO DZ 12.544 1.130 12.623 4.337 12.617 8.510 12.618 16.134 12.630 31.004	RUN NO. 622/ 0  MACH DX .59930 -33720 .59970 -1.14280	.9000 IN.XC .0000 IN.YC .8000 IN.ZC RN/L •  BY I.40900 I.40240 I.42200 I.42200 I.49840 I.47370 I.48210 I.48950	3.34 GRA BETAO -5.21950 -5.22240 -5.22820 -5.23970 -5.24900	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.83690 5.82570 5.82070 5.80320 5.79220	ALPHAC = ELV-18 = ELEVON = BETAO = OX =  OO/ 4.00  BETA -4.9850B -4.57960 -4.98110 -4.9820 -4.98470 -4.97510	PARAMETRIC 4.000 5.000 5.000 -5.000 .000 CY .09900 .09450 .09450	BETAC = ELV-OB = MACH = PHI = DY *  CLH = .017500231001990017100191001940	-5.000 3.000 .000 .000 .000  CSL .01500 .01610 .01670 .01650 .01650

CARD 747/0 OR SI AT38 AT39 CARRIER DATA (AGNO44) ( 01 DEC 75 )

			CYSO	747/0	02 S1 AT38	W193	CARRIER DATA	•	EASNOY	4) (B) DE	
	REFEREN	CE DATA							PARAMETRIC	: DATA	
SREF = 5	5500.000D 50	.FT. XMRP	· 1339.9	000 IN.XC				ALPHAC =	4.000	BETAC =	-5.000
LREF =	327.7800 IN		•	DED IN.YC				ELV-IB =	.020	ELV-OB =	3.000
	2348.0400 IN			000 IN.ZC				ELEVON =	5.000	MACH =	.600
SCALE =	.0390							BETAO =	-5.000	PHI =	.000
								DX -	.000	DY =	.000
	•	RUN NO	. 623/ 0	RN/L =	3.33 GRA	DIENT INTE	RVAL = -1.0	10/ 4.69			
ALFHAO	DZ	MACH	DX	DY	BETAD	PH1	ALPHAH	BETA	CY	CLH	CSL
12.689	1.078	.60000	11690	1.45730	-5.21700	.00800	5.83930	-4.58900	.09280	01310	.0146 <b>0</b>
12.667	4.227	.60030	34250	1.45710	-5.21810	.00000	5.83370	-4.99230	.09730	01770	.01540
12.664	8.517	.60080	63820	1.47060	-5.22580	.00800	5.82500	-4.93420	.09450	01790	.01550
12.671	16.093	.60020	-1.16016	1.48748	-5.23480	.00800	5.81380	-4.97680	.09170	01740	.01600
12.680	31.112	.59970	-2.19178	1.51148	-5.24470	.00800	5.79960	-4.97500	.09350	01920	.01700
12.697	46.160	.605.	-3.22910	1.51778	-5.24610	.00000	5.78340	-4.97470	.09300	01950	.01759
12.700	69.200	.59940	~4.28270	1.52760	-5.24540	.00000	5.78270	<del>-4</del> .98230	.09330	01970	.01769
	GRADIENT	.00000	.08080	.00000	.00000	.00800	.00000	.00000	.00000	.00000	.00000
			CA20	747/1	01 S1 AT3B	EETA	CARRIER DATA	١.	(AGNO4		C 75 1
	REFEREN	CE DATA	CA20	747/1	01 S1 AT3B	eeta	CARRIER DATA	<b>.</b>	(AÚNO4		C 75 1
sref = !	REFEREN 5500.0000 SG			747/1 880 IN.XC	01 S1 AT3B	EETA	CARRIER DATA	ALPHAC =			.000
Sref = ! lref =		i.FT, XMRP	- 1339.9		OL SI AT38	PETA	CARRIER DATA		PARAMETRIC	: DATA	
LREF =	5500.0000 S <b>G</b>	i.FT. XMRP	= 1339.9 = .0	880 IN.XC	OL SI AT38	eeta	CARRIER DATA	SLPHAC =	PARAMETRIC	DATA  BETAC =	.000
LREF =	5500.0800 SG 327.7800 IN	i.FT. XMRP	= 1339.9 = .0	000 IN.XC	01 S1 AT38	A <b>T3</b> 9	CARRIER DATA	ALPHAC =	PARAMETRIC	BETAC = ELV-08 =	.000 2.000
LREF =	5500.0800 SG 327.7800 IN 2348.0400 IN	i.FT. XMRP	= 1339.9 = .0	000 IN.XC	O1 S1 AT38	<b>ET4</b>	CARRIER DATA	XLPHAC = ELV-18 = ELEVON =	.000 .000 .000 5.000	BETAC = ELV-08 = HACH =	.000 3.009 .003
LREF =	5500.0800 SG 327.7800 IN 2348.0400 IN	i.FT. XMRP	0 = 1339.9 0 = .0 0 = 190.8	000 IN.XC			CARRIER DATA	XLPHAC = ELV-18 = ELEVON = ESTAD = DX =	.000 .000 .000 5.000	BETAC = ELV-08 = HACH = PHI =	.000. 000.E 000.
LREF =	5500.0000 SG 327.7800 IN 2348.6400 IN .0300	i.FT, XMP.P I. YMRP I. ZMRP	0 = 1339.9 0 = .0 0 = 190.8	000 1N.XC 000 IN.YC 000 IN.ZC		DIENT INTE PHI	RVAL = -1.( ALPHAH	ALPHAC = ELV-18 = ELEVON = EETAD = DX =  BD/ 4.00	PARAMETRIC .000 .000 5.000 .000 .000	BETAC = ELV-08 = HACH = PHI = OY =	.000 3.000 .600 .000 .000
LREF = ; SCALE =	5500.0000 SG 327.7800 IN 2348.6400 IN .0300	FT, XMRP L YMRP L ZMRP	- 1339.9 6 - 190.8	000 IN.XC 000 IN.YC 000 IN.ZC	3.23 GRA BETAO .01080	DIENT 1NT8 PH1 .00000	ALPHAH 2.00160	*ALPHAC = ELV-18 = ELEVON = ETAD = DX = 00/ 4.00	PARAMETRIC .000 .000 5.000 .000 .000	BETAC = ELV-08 = HACH = OY = CLN .00000	.000 3.000 .600 .000 .000
LREF = ESCALE =	5500.0000 SG 327.7800 IN 2348.0400 IN .0300	ET. XMRP  YMRP  ZMRP  RUN NO	9 = 1339.9 9 = .6 9 = 190.8 0. 627/ 0	000 IN.XC 000 IN.YC 000 IN.ZC RN/L =	3.23 GRA BETAO	DIENT INTE PHI	RVAL = -1.( ALPHAH 2.00160 2.00010	ALPHAC = ELV-18 = ELEVON = ESTAD = DX = 00/ 4.00 BETA .04680 .05430	PARAMETRIC .000 .000 5.000 .000 .000	BETAC = ELV-08 = HACH = OY = CLN .00000 .00030	.000 3.000 .600 .000 .000 .000
REF = SCALE =  ALPHAO 8.542	5500.0000 SG 327.7800 IN 2348.0400 IN .6300	ET. XMRP  ZMRP  RUN NO  MACH  .59990	0 = 1339.9 0 = .6 190.8 0 = 627, 0 0x 3.63520	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = DY 02460	3.23 GRA BETAO .01080	PHI .00800 .90900 .90900	ALPHAH 2.00160 2.00010 1.99340	*ALPHAC = ELEVON = ELEVON = DX = D	.000 .000 5.000 .000 .000 .000	ELV-08 = HACH = OY = OUT	.000 3.000 .000 .000 .000 .000
REF = SCALE = ALFHAO 8.542 9.528	5500.0000 SG 327.7800 IN 2348.0400 IN .8300 DZ .714 3.692	ET. XMRP L. YMRP L. ZMRP RUN NO MACH .59990 .59920	0 = 1339.9 0 = .0 0 = 190.8 0. 627, 0 0x 3.63520 3.63100	000 1N.XC 000 1N.YC 000 1N.ZC RN/L = DY 02460 02690	3.23 GRA BETAO .01080 .00950	PH1 .00600 .60000 .00000 .00000 .00000	ALPHAH 2.0010 2.00010 1.99340 1.98550	**************************************	CY008300081000840	ELV-08 = HACH = OY =  CLN .00080 .00030 .00130 .00170	.000 3.000 .000 .000 .000 .000 .00080 .00090 .00090
REF = 6 SCALE =	5500.0000 SG 327.7800 IN 2348.0400 IN .0300 DZ .714 3.692 8.056	ET. XMRP  ZMRP  RUN NO  MACH .59920 .59930	0 = 1339.91 0 = .01 0 = 190.81 0. 627/ 0 0x 3.63520 3.63100 3.63410	000 IN.XC 000 IN.XC 000 IN.XC RN/L = DY 02460 01440 01330 00330	3.23 GRA  BETAO .01080 .00950 .60730 .0049000020	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 2.00160 2.00010 1.99340 1.98550 1.97170	**XLPHAC = ELEVON = ELEVON = DX = D	CY00500050005000500050005000560005100054000930	ECTAC = ELV-OB = HACH = PHI = OY = CLN .00000 .00030 .00130 .00130 .00120	.000 3.000 .000 .000 .000 .000 .00090 .00090 .00060
REF = SCALE = SCALE = ALPHAO 8.542 8.528 8.518 9.507	5500.0000 SG 327.7800 IN 2348.0400 IN .0300 DZ .714 3.692 8.056 15.605	RUN NO MACH .59920 .59930	0 = 1339.91 0 = .01 0 = 190.81 0. 627/ 0 0. 627/ 0 0. 627/ 0 0. 627/ 0 0. 627/ 0 3.63520 3.63100 3.63410 3.63760	RN/L =  O2080  O2080  O2080  O4080  O4080	3.23 GRA  BETAO .01080 .00950 .00730 .00490	PH1 .00600 .60000 .00000 .00000 .00000	ALPHAH 2.0010 2.00010 1.99340 1.98550	**************************************	CY008300081000840	ELV-08 = HACH = OY =  CLN .00080 .00030 .00130 .00170	.000 3.000 .000 .000 .000 .000 .00080 .00090 .00090

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

-10.44360

-11.37640

-12.40620

-. 14064

.59980

.69990

.60070

.00021

61.155

67.897

75.245

GRADIENT

16.891

16.891

16.391

PAGE 103

.00250

.00250

.00011

.04720

.04730

-.00279

-.01120

-.01110

.00007

-.00120

-.00130

-.00804

ATE OI DEC	75	INDULA	HED SOUNCE	UNIN UNA	_						
			CA20	747/1	O1 51 AT38 .	AT39 C	ARRIER DATA		1 AGNO4E	i tol DEC	: 75 1
	REFERENCE	DATA						P	ARAHETRIC	DATA	
								ALPHAC =	4.000	BETAC =	.000
REF = 55	00.0000 SQ.F1	r. XMRP		100 IN.XC				ELV-18 =		ELY-OB =	3.000
REF = 3	27.7800 IN.	YHRP		IBD IN.YC				ELEVON *	5.000	MACH =	.600
REF = 23	M8.0400 IN.	ZHRP	= 190.80	000 IN.ZC				BETAO =	.000	PH! =	.000
CALE =	.0300							DX .	.000	BY =	.080
		RUN NO	. 625/ 0	RN/L =	3.33 GRAD	IENT INTER	YAL = -1.00	0/ 4.00			
	•			ΩY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
ALPHAO	DZ	MACH	DX		.00710	.00000	5.90010	.05470	00610	00010	.0004
15.935	1.832	.60070	18360	02470	.00510	.00000	5.69670	.06970	00670	.88840	.000
12.928	4.902	.68050	39 <del>9</del> 70	02410	.80490	.00000	5.891 <del>0</del> 0	.04620	00760	.00890	.000
12.919	9.333	.59970	70450	01890	.80320	.00000	5.88020	.05340	00870	.00169	.080
12.922	16.267	.60010	-1.18040	01810	08230	.00000	5,86670	.64510	0820	.00230	000
12.928	31.736	.59970	-2.24670	00760	00230	.00000	5.85220	.06070	00920	.00220	000
12.931	46.536	.60010	-3.26590	00890	=	.00000	5.84840	.05300	-,00900	.00210	000
12.938	61.653	.59990	-4.32120 00000	.00250	00900 .00800	.80080	.00000	.00000	.00000	.00000	.000
			CASO	747/1	01 SI AT38	AT39 (	ARRIER DATA		(AGNO4)	7) (0) 00	C 75 )
			CARU	74771	01 31 7.50				PARAHETRIC	DATA	
	REFERENCE	DATA									
		- 10155	1770.0	000 IN.XC				ALPHAC =	8.000	BETAC =	.080
	500.0000 SQ.F			BOD IN.YC				ELV-18 .	.000	ELV-OB =	3.000
	327.7800 IN.	YMRF		1000 IN.ZC				ELEVON =	5.000	HACH =	.600
	348.0400 IN.	ZMRF	= 190.8	114.26				SETAO =	.000	PHI =	.000
CALE -	.0300							ex •	.000	• YO	.000
		RUN N	). 626/ O	RN/L =	3.25 GRA	DIENT INTE	RVAL = -1.0	38/ 4.80			
			DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
ALPHA0	DZ	HACH	-2.09540	01670	.00380	.00000	9.78520	.04000	00970	.00060	.00
16.841	.924	.60020		01030	.00240	.00800	9.78090	.03220	+.00950	.00090	.00
16.843	3.722	.60080	-2.48890	01030	.00200	.00000	9,77510	.04860	00880	.00040	00
16.845	8.201	.60030	-3.10370	00210	00030	.00000	9,76470	.04690	01120	.60210	00
16.650	15.692	.59940	-4.13510	.00210	00430	.00000	9.74940	.04650	01220	.60293	~.00
16.865	30.700	.59990	-6.20900	.01440	00560	.00000	9.73700	.04670	01180	.00280	00
16.875	45.718	.55990	-0.29310	.02570	01250	.00000	9.72920	.05480	~.01148	.00250	00
16 601	61.155	.59980	-10.44360	.023/0	01620	.00000			01100	CODED	- 00

.00000

.00000

.00000

9.72220

9.72200

-.00154

-.01550

-.01600

-.00050

.03360

.03680

CA20 747/1 OI 51 AT38 AT38

CARRIER DATA

(AGNO4B) ( DL DEC 75 )

	REFERENCE	DATA							PARAHETRIC	DATA	
LREF =	5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300	T. XHRP YHRP ZHRP	<b>.</b> 0	889 IN.XC 880 IN.YC 880 IN.ZC				ALPHAC = ELEVON = BETAO = DX =	4.090 000 5.000 -5.000	BETAC = ELV-08 = MACH = PHI = DY =	-5.000 3.000 .500 .000
		RUN NO.	624/ 0	RN/L =	3.34 GRA	DIENT INTER	IVAL = -1.0	90/ 4.00			
ALPHAO 12.701 12.694 12.674 12.674 12.679 12.690 12.692	0Z .950 4.036 9.305 15.805 30.896 45.974 60.286 GRADIENT	MACH .60050 .60000 .59970 .59980 .59900 .60090	0x091783105060550 -1.11840 -2.16020 -3.19910 -4.16950	0Y 1.42880 1.41650 1.43390 1.46120 1.46350 1.49390 1.50010	BETAD -5.22730 -5.23570 -5.23550 -5.24530 -5.25590 -5.25830 -5.26240 .00000	FHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAR 5.83270 5.83430 5.86540 5.86540 5.85530 5.84400 5.83510	BETA -4.97770 -4.97960 -4.97320 -4.98130 -4.96770 -4.97330 -4.97300 .00000	CY .09950 .10540 .09970 .09700 .09170 .09510 .69480	01630 02260 02090 02040 01820 02050 02050 .00000	CSL .01190 .01310 .01340 .01370 .01340 .01400 .01420
			CA20	747/1	<b>01 S</b> 1	c	ARRIER DATA		LAGND4	91 (0106	C 75 1
	refersnce	DATA	CA20	747/l	01 51	c	ARRIER DATA	•	LAGNO4 PARAHETRIC		C 75 1
LREF =	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300		≈ 1339.9 = .0	747/1 000 IN.XC 000 IN.YC 000 IN.ZC	<b>01</b> S1	c	CARRIER DATA	ALPHAC = ELV-1B = ELEVON = BETAC = OX =			.000 3.000 .000 .000
LREF . 8	5500.0000 SQ.F 327.7800 EN. 2348.0400 EN.	T. XMRP YMRP	* 1339.9 = .0 = 190.6	880 IN.XC		C DIENT INTER		ALPHAC = ELV-18 = ELEVON = BETAD =	.000 .000 .000 5.000	DATA  BETAC = ELV-08 = MACH = PHI =	.000. 2000. 000.
LREF . 8	5500.0000 SQ.F 327.7800 EN. 2348.0400 EN. .0300	T. XMRP YMRP ZMRP	* 1339.9 = .0 = 190.6	880 IN.XC 880 IN.XC 880 IN.XC				ALPHAC = ELV-18 = ELEVON = BETAD = OX =	.000 .000 .000 5.000	DATA  BETAC = ELV-08 = MACH = PHI =	.000 0.000 000 000

14,740

GRADIENT

PAGE 105 TABULATED SOURCE DATA - CA20 DATE OF DEC 75 (AGNG49) ( 0) DEC 75 ) CARRIER DATA 747/1 01 SI CASO PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = .000 BETAC . XHRP 1339.9000 IN.XC . 5500.0000 SQ.FT. 3.000 .000 ELV-08 = ELV-18 = .0000 IN.YC YMRP 327.7800 IN. .600 ELEVON \* 5.000 HUCH 190.8800 IN.2C ZMRP 2348.0400 IN. BREF -.000 .000 PHI BETAD -.0380 SCALE # .000 DY .000 DX .80/ 12.00 GRADIENT INTERVAL . 3.29 628/ 0 RN/L = RUN NO. CSL CY CLN BETA PHI ALPHAH BETAO ĐΧ DY DZ MACH-ALPHAO -.00020 .00100 -.00500 2.01030 .04640 .00000 2.52450 -.01930 .00730 1.272 .59950 10.637 .00090 .00000 2.00740 .05410 -.00600 -,01980 .00740 .00000 .59910 2.52460 3.993 10.614 .00020 .00070 -.00580 .03840 .00630 .00800 2.00440 -.01370 2.52560 6.991 .59970 10.601 .00090 .00070 -.00590 ,00000 2.00010 .04560 .00590 -.01580 9.629 .59960 2.52630 10.592 .00070 -.00730 .00130 .05300 .00410 ,00000 1.99100 2.52960 -.01470 .60070 15.154 10.5B3 .00030 -.00B60 .00190 .00000 1.97990 .05250 -.01350 .00330 2.53050 20.698 .60030 10.585 .00180 .00040 .04490 -.00780 1.97440 .00000 -,00570 .08030 2.53340 .60090 26.325 10.592 .60010 -.00860 .00210 .05230 1.97230 -.00040 .00000 2.53780 -.00530 .59990 10.555 31.999 .00210 .60010 -.00868 .40000 1.96970 .05230 -.00650 .08800 2.53880 37.416 .59910 10.560 .00010 -.00850 .00220 1.96310 .05230 .00000 -.00450 -.00850 .60070 2,54520 42.935 10.561 .00000 .00240 -.00920 1.96090 .64440 -.00220 .00000 -.00120 2.53990 .59910 10.566 48.065 -.00004 -.00009 \$1000. -.00120 -.00068 -.00019 .00000 .30u. .00060 .00003 GRADIENT .00/ 12.00 GRADIENT INTERVAL = RUN NO. 16 27 2 5 1/L = 3.25 CSL CY CLN **BETA** PHI ALPHAH DATEB DΥ ĐΧ DZ MACH **ALPHAO** -.00080 .00070 2.03660 .03910 -.00420 .00000 .00250 .00170 3,701 ,59910 1.51970 14 839 -.00470 -.00846 .00070 .04660 .00140 2.03470 .00000 1.51440 .003:0 .59920 14.820 6.608 .00000 .00050 -.00500 .00000 2.02900 .05400 .00070 1.51090 .00280 11.326 .60080 14.798 .00060 .00040 -.00578 2.01470 .04590 .00000 .00610 -.08130 1.50530 .59910 10.752 14,777 .00040 -.00740 .01170 .04480 -. Dt 330 .00000 1.99380 1.50510 .01100 .59940 14.759 33.074 .00020 -.00840 .00230 .00000 1.97740 .84440 -.00%46 1.51130 .01550 14.751 48.459 .60030 .00810 -.00280 .00250 .04430 .00000 1.97150 1.51010 .02740 -,01460 .60090 63.690

.00002

.00023

-.00111

-.00013

-.00001

.00010

-.00010

.00192

-.00102

.00000

CA20 747/1 01 S1

.00000

-.00012

.00031

GRADIENT

+.00009

.00000

-.00123

.00006

.00012

-.00003

CARRIER DATA

(AGN050) ( Q1 DEC 75 )

	REFEREN	NCE DATA							PARAHETRIC	DATA	
LREF -	3500.0800 SC 327.7800 II 2348.0400 IX	v. Yrskip		9000 IN.XC 9000 IN.YC 9000 IN.ZC				ALPHAC = ELV-1B = ELEVON = EETAO = DX =	.000 .000 5.000 .000	BETAC = ELV-08 = HACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO	. 636/ 0	RN/L =	3.25	GRADIENT INTERV	'AL = .	.00/ 12.00			•
ALPHAO	DZ	МАСН	ĐΧ	ĐY	BETAO	PHI	ALPHAH	AT36	CY	CLN	CSL.
6.250	. 172	.60020	15.27190	03320	.0145		1.97000	.65470	00540	08010	.00090
6.243	3.541	.59960	15.27150	02910	.0119		1.97180	.85450	06510	.00010	.00090
6.236	7,711	.58990	15.27720	02610	.0165		1.96950	.05360	00700	.08110	.08080
6.238	15.213	.60070	15.28380	02330	.0088		1.96200	.65350	00890	05100.	.08070
6.237	18.591	.59920	15.28410	02280	.0073		1,96290	.85310	00780	.00170	.0884 <b>0</b>
6.239	24.078	.59920	15.28710	02108	.0052	8 .00000	1.95020	.05300	00790	.00180	.08840
	GRADIENT	00004	.00073	.00893	0005	1 .08800	000009	00015	00022	.08016	08024
		RUN NO		RN/L =		GRADIENT INTERV		.00/ 12.00			
ALFHAD	DZ	MACH	ЮX	DY	BETAO		ALPHAH	BETA	CX	CFW	CSL
10.523	2.219	.59910	12.46630	02510	.0071		1.99830	.05490	00400	00070	.00100
10.508	6.391	.59950	12.46980	01920	.0066		1.99520	.04680	00490	00020	.00080
10.498	9.749	.60000	12.47340	01890	.0060		1.99040	.04620	00500	.00000	.60096
10.491	17.197	.59960	12.47830	01460	.0035		1.98140	.04560	00660	.00130	. 10070
10.487	32.470	.59980	12.48740	01260	.0001		1.95940	.05270	60790	.60210	.19040
10.466	39.016	.60020	12.49080	01300	.0000		1.56590	.05250	00250 00270	.00220	.00020
10.484	47.280	.59980	12.49400	00850	0013		1.96280	.04470 00109	00026	.00240	+.00020
	GRADIENT	.00012	.00054	.00078	0801	5 .00000	00088	00105	50025	100011	0-7002
		RUN NO	. 639/ 0	RN/L =	3.23	GRADIENT INTERV	/AL = .	.00/ 12.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAN	BETA	CY	CLN	CSL
14.710	4.989	.60030	11.34780	00530	.0020	00800. 0	2.02580	.04720	00310	00090	.00120
14.694	8.249	.59990	11.34880	00530	.0017	00000.0	2.02180	.04740	00270	00100	.00120
14.680	12.695	.60070	11.35090	00840	.0015	00000. 0	2.01540	.05400	00480	.08020	.00100
14.671	20.170	.60000	11.35310	00460	0008	00000. 0	2.00340	.05400	00480	.08840	.00050
14.655	35.00B	.59900	11.36060	08440	0017		1.53500	.08070	00660	.00160	.00050
14.656	50.142	.59999	11.36550	.00210	0053		1.97450	.05240	00780	.00230	.00040
14,648	64.911	.60859	11.37090	.01860	0137	00080.	1,96780	.64478	00780	.00230	.00040
		00013	00071	00000	- 0000	9 60000	- 00137	90008	00012	- 00002	กอกอก

DZ

13.230

16.279

20.672

28.161

43.390

59.256

68.990

**GRADIENT** 

**ALPHAO** 

14.618

14.617

14.616

14.614

14.518

14.607

14.604

HACH

.59990

.60030

.60090

.60090

.60080

.60000

.60040

.00000

21.18160

21.10350

21.18810

81.19310

21.20220

21.20560

21.21290

.08000

TABULATED SOURCE DATA - CAZO DATE OI DEC 75 ( 01 DEC 75 ) (AGNOSL) CARRIER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA .008 ALPHAC . .000 BETAC = 1339.9000 IN.XC XHPP 5500,0000 SQ.FT. ETA-08 = 3.000 .000 ELV-IB = .0000 IN.YC YMRP 327.7800 IN. LREF .600 HACH ELEVON = 5.000 190.8000 IN.ZC 2348.0400 IN. ZHRP BREF = .000 BETAD = .000 PHI .0380 SCALE = DY .000 20.000 DX .00/ 12.00 GRADIENT INTERVAL = RUN NO. 641/ 0 RN/L = 3.24 CSL CY CLN PHI AL PHAH BETA DY BETAO HACH DX DZ **ALPHAO** .00050 .00070 .05390 -.00530 1.96160 .00000 .00940 -.02560 25.24210 .59990 8,425 6.190 .000B0 .00060 .05370 -.00510 1.95010 .00880 .00000 -.02540 25.24410 .59910 6.192 11.568 .00060 .05350 -.00E40 .00100 1.95580 .00000 .00710 -.02440 25.25100 .68060 16.022 6.193 -.60720 .00140 .00030 .05310 1.95590 .06460 .00000 -.02899 25.25360 .59930 23.561 6.197 .08010 -.08803 -.08006 -.00025 -.00848 -.00019 .00000 .80006 .00064 -.00025 GRADIENT GRADIENT INTERVAL = .00/ 12.00 3.25 640/ 0 RN/L = RUN NO. CSL CLH ALPHAH BETA CY PHI DY BETAD MACH ĐΧ ĐΖ ALPHA0 .00070 -.00500 .00030 .03859 1.98200 .00000 22.40780 -.01410 .00510 .59940 10.406 10.347 .00060 -.00480 .00040 .05390 .00000 1.97910 .08430 -.02080 22.41020 13.221 .60000 10.407 .00080 .00050 -.00570 .04580 1.97280 .00000 .00310 22.41380 -.01610 .59960 17.998 10.409 .00040 .00170 -.00720 .65280 1.96540 -.02000 .00146 .00000 .59920 22.42090 10.410 25.437 05000. -.00780 .00200 .03700 .00000 1.95580 .00010 22.43270 -.00750 .59980 40.457 10.413 .00190 .00030 .05269 -.00730 .00000 1.95860 22,43050 -.01450 -.00050 .59940 46.554 10.411 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.30 RUN NO. 639/ P CSL BETA CY CLI PHI **ALPHAW** BETAO DX DY

.00160

.00160

.00000

-.00190

-.00220

-.00690

-.01250

.00000

-.01070

-.00406

-.00640

-.00210

-.00190

.00290

.01290

.00000

PAGE 107

-.00030

.00010

.00020

.00110

.00190

.00220

.00230

.00000

-.00310

-.08430

-.80440

-.00500

-.00720

-.00760

-.00820

.00000

.04660

.03860

.04630

.04560

.04490

.04470

.04450

.00000

1.89990

1.99560

1.99930

1.98090

1.97060

1.96620

1.96040

.00000

.00000

.00000

.00000

.00000

.00000

.88880

.00000

.00000

.00090

.00070

.00078

.00050

.00030

.00020

.00000

CARRIER DATA

(AGN052) ( 01 DEC 75 )

CA2D 747/1 01 51

	REFER	ENCE DATA							PARAHETRIC	DATA	
erre = 1	5500.00 <b>0</b> 0 1	SOLFT. XHRP	= 1339.	9000 IN.XC				ALPHAC =	4.000	BETAC -	.000
Sref = '	327.788G			0080 IN.YC				ELV-18 =	.000	ELV-08 =	3.000
	2348.0400			808D IN.ZC				ELEVON =	5,600	HACH =	.600
	.0380	IM. Zipu-	- 150	0000 111120				BETAC -	.000	PHI *	.000
SCALE =	.0380							DX =	.000	DY =	.000
		RUN NO.	632/ 0	RN/L =	3.24	GRADIENT INTERV	VAL = .	09/ 12.00			
ALPHAO	DZ	HACH	DХ	DY	BETAD	PHI	ALPHAR	BETA	EY	CLN	CSL
6.161	-3.400	.60080	3.7756D	02220	.0116	00000.	5.84160	.05500	00840	00010	.00050
6.159	517	.60060	3.57990	01780	.0122	00800. 0	5.84240	.04650	00840	.00060	.08030
6.156	3.031	.60030	3.28090	01630	.0103	00000.	5.83970	.64590	00500	.00130	.00020
6.178	11.707	.59960	2.74170	01420	.0079	00000.	5.83720	.65290	00980	.00210	_00000
6.203	24.148	.59980	1.88550	00670	.0024	00000.0	5.83190	.64470	01040	.00250	00010
0.002	GRADIENT	00009	05846	.00027	0893	00000.	00019	.00009	00010	.60010	00003
	•	RUN NO.	646/ 0	RN/L •	3.24	GRADIENT INTER	VAL = .	00.12.00			
							_				
ALPHAO	DZ	MACH	ĐΧ	DY	EETAO		ALPHAH	BETA	CY	CLN	CSL
10.487	1.956	.59980	.61590	01239	.0057		5.86740	.03910	00790	.00010	.00030
10.482	6.349	.60050	.31720	01200	.0060		5.88210	.04610	00890	.00100	.00010
10.480	13.746	.59930	18650	00960	.0840		5.85350	.04550	00940	.00160	.00000
10.493	29.253	.59900	-1.25310	00390	0013		5.84130	.05260	01050	.60230	00030
10.497	34.851	.59980	-1.63870	00460	0005		5.83810	.05250	01070	.00253	00040
[0.501	44.044	.60010	-2.27250	00250	0005		5.83389	.64488	01060	.00250	00040
	GRADIENT	.08016	06799	.000 <b>07</b>	6001	6 .00000	00121	.00159	00023	.00020	00005
		RVN <b>NO</b> .	. 647/ 0	RN/L =	3.24	GRADIENT INTER	VAL =	.00/ 12.00			
ALPHAO	) DŽ	HACH	ĐΧ	ÐY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.823	.973	.60090	34980	00900	.0013	00000.	5.98839	.03900	00760	08040	.00050
14.79B	3.968	.59980	55880	00710	.0918	00000.	5.69710	.03920	00830	.0000	.00020
14.765	8.718		88540	00540	.0008	00000.	5.89000	. 94570	00900	.00100	.06010
14.777	16.885		-1.39120	00360	0002	00000. Q	5.87650	.05360	00900	.08110	.00000
14.774	31.103	-	-2.42410	.69730	0039		5.65800	.04480	01640	.00240	00040
14.771	45.934		-3.45290	.03920	0059		5.64650	.05240	01050	20253	00340
14.769	60.784		-4.47470	.02360	0135		5.83630	.04490	01000	.00230	00030
17.765	GRADIENT		05912	.00646	0000		00134	.00093	00017	.00917	00005

PAGE 109 TABULATED SOURCE DATA - CA20 DATE 01 DEC 75 (AGN053) ( 0) DEC 75 ) CARRIER DATA CARO 747/1 01 SI PARAMETRIC DATA REFERENCE DATA .000 4.000 BETAC . ALPHAC = - 1339.9000 IN.XC XHRP SREF - 5500.0000 SQ.FT. ELV-08 = 3.000 ELV-IB = .000 .0808 IN.YC LREF = 327.7800 IN. YMRP = 5,000 HACH ELEVON = 190.8000 IN.ZC ZMRP = BREF - 2348.0400 IN. PH1 BETAD = .000 SCALE \* .0300 10.000 DY DX .00/ 12.00 GRADIENT INTERVAL -3.27 RN/L = RUN NO. 635/ 0 CSL BETA ÇY CLN ALPHAN BETA0 PHI ΟY DΧ DZ HACH ALPHA0 .08280 -.00810 .04740 .00000 5.83520 .01620 13.78940 -.02950 ..60030 -3.556 6.127 .00040 5.83590 .08250 -.00770 .00000 .01490 -.03250 .60070 13.58720 -.595 6.127 .00120 -.00860 .06170 5.83540 -.03270 .01370 .00000 13,29050 3.738 .60070 6.134 -.00010 09100. ~.00930 5.83280 .04570 .00000 -.02220 .01110 12.77230 .60010 6.151 11.277 -.00010 -.00950 .00190 .04560 5.03040 .00000 .00890 12.32160 -.01940 .60020 17.789 80800. -.00003 6.169 -.00009 -.00212 -.08034 .00000 -.00034 .00139 -.06972 -.00008 **GRADIENT** 00.SI \00. GRADIENT INTERVAL = 3.23 RN/L = RUN NO. 694/ 0

BETAD

ĐY

DΧ

MACH

DZ

ALPHAO

.600

.000

.000

.00020

.00010

.00010

CSL

.00040

CLN

.00000

BETA

.80060

AL PHAH

5.84020

CY

-.00870

10.448 10.431 10.432 10.436 10.455 10.476	-1.201 1.842 6.408 13.956 28.936 43.999 48.276	.60020 .60020 .60090 .60090 .60060 .60000	18.79470 10.59270 10.29290 9.77130 8.74770 7.70840 7.41470 06785	01680 01490 00960 01090 00770 00180 00160	.01530 .01460 .01300 .01100 .00610 .00500 .00420	08000. 00000. 00000. 00000. 00000. 00000.	5.84020 5.84070 5.83720 5.82810 5.82040 5.81390 5.81240 00077	.00060 00010 0060 00150 .00590 00170 00180	00870 00960 01060 01120 01200 81110 01130 00022	.00022	.00020 .00000 00030 00040 00040 00050
ALPHAO 14.751 14.731 14.724 14.722 14.722 14.727	DZ 1.086 4.167 8.638 16.335 31.320 46.516 61.207	AUN NO MACH .60030 .59560 .60010 .59560 .60010 .59940	0. 693/ 0 0x 9.51270 9.30440 9.00320 8.47860 7.45320 6.40990 5.39790 06746	RN/L =  DY0180001580017800179000050001300143000901	3.23 GRAD  BETAO .00830 .00800 .00750 .00660 .00300 .002700058000011	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.86930 5.86720 5.85940 5.85920 5.83490 5.82450 5.81820 00122	BETA 00710 00930 00090 .00610 00200 00200 00200	CY 00720 00920 00960 01160 01160 01170 010930	CLN 00050 .00080 .00140 .00240 .00290 .00280 .00300	29. 00000. 01000. 01000 01000 01000 04000

PHT

CARRIER DATA

(AOH054) ( 01 DEC 75 )

PARAMETRIC DATA

RF		~ 1	- 11	14

LREF -	500.0000 59. 327.7800 IN. 348.0400 IN. .0360	YMRF		000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = OX =	4.000 5.000 5.000 20.000	BETAC = ELV-08 = HACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO	). 642/ <b>0</b>	RN/L =	3.22 GF	RADIENT INTER	VAL = .0	00.51 \0			•
ALPHAO	DŽ	HACH	DХ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLH	CSL.
6.093	2.348	.59910	23.37960	02250	.01360	.00888	5.83400	.04650	00810	.03050	.00018
6.103	5.577	.5930	23.15510	02820	.01220	.00000	5.83120	.05480	+.00830	.02020	.0806 <b>0</b>
6.111	9.879	.59920	22.66210	02590	,01070	.00000	5.83040	. 05370	00850	.00120	.00000
6.132	17.481	.59960	22.33520	01930	.00820	.00000	5.82870	.04560	00900	.00170	00010
6, 145	25.660	59980	21.75890	02230	.03550	.00000	5.82EB0	.05300	00970	.00200	08020
	GRADIENT	.00001	06870	00042	00039	.00000	00046	.00090	00005	.00008	00001
					<b>7</b> 50 61	RADIENT INTER		0/ 12.00			
		RUN NO	). 677/ D	RH/L =	3.28 G	KADIENI INIEN	WAL	U/ 12.00			
	0.7	MACH	אמ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
ALFHAO	DZ	.59980	20.39070	.00180	.01220	.00000	5.65300	00890	01060	.00180	CDO! <b>Q</b>
10.302	4.428		20.35870	.00640	.01130	.00080	5.64870	01700	01110	.00220	00030
10.309	7,499	.60020		.01160	.01040	.00000	5.84580	02500	01170	.00260	00030
10.316	11.949	.55930	19.07580	.01180	.00760	.00000	5.83900	01750	01170	.00280	00040
10.338	19.513	.59990	19.35470	.08950	.00100	.00000	5.83580	00990	01160	.00380	08068
10.357	34.554	.60000	18.31350		.00310	.00000	5.03240	00970	01100	.00280	00040
10.367	48.107	.60030	17.37700	.01200			00854	00212	02915	.00011	00002
	GRADIENT	.00001	06846	.00129	00024	.00800	08854	00214		***************************************	*****
		RUN N	0. 676/ 0	RN/L =	3.27 6	RADIENT INTER	IVAL = .0	10/ 12.00			
41 (1) (1)	DZ	MACH	ĐΧ	DY	BETAG	PHI	ALPHAW	BETA	CY	CLN	CSL.
ALPHAO	7.759	.59950	18.91230	08480	.00530	.00000	5.87200	00899	~.00989	.00150	.88010
14.565		.60050	19.59760	00170	.00500		5.87010	01700	01050	.00200	08010
14.565	10.920		18.40910	01690	,00430		5.86550	00210	01130	.00260	00020
14.575	15.111	.59950		.00660	.00150		5,65810	-,01770	01150	.60290	00040
14.571	22.922	.60080	17.87690	.00120	.00150		5.64840	01000	01140	.00300	60050
14.590	37.645	.55310	16.86160		00130		5.64130	01000	01150	.00360	00050
14.589	52.832	.59920	15.81080	.01610			5.83640	01740	01090	.00270	08050
14.705	68.281	.60040	14.72650	.03240	00970		00060	00256	00022	.00016	60006
	GRADIENT	.00932	06791	.00101	00009	, .00500	00000	00520	- 100026	,45510	



-.13645

.00007

GRADIENT

-.00107

-.00022

PAGE III TABULATED SOURCE DATA - CA28 DATE DI DEC 75 (AGN055) ( D) DEC 75 1 CARRIER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA BETAC = .000 ALPHAC . 8.000 1339.9000 IN.XC SREF = \$500.0000 SQ.FT. XHRP 3.000 .000 ELV-08 = ELV-18 = YMRP .CODO IN.YC 327.7800 IN. .600 ELEVON = 5.000 MACH 190.8000 IN.ZC ZHRP = 2348.0400 IN. BREF .000 .000 PHI BETAO = .0300 SCALE \* .000 DY DX .000 GRADIENT INTERVAL -.00/ 12.80 3.23 RUN NO. 633/ 0 RN/L = CSL ALPHAN BETA CY CLN PHI DX DY BETAO **ALPHAO** DZ MACH .00120 -.00080 .04850 -.01100 9.71490 .01090 .00000 .59920 1.93130 -.01440 -.937 5.939 -.00080 -.01040 .00160 .05580 .00980 .00000 9.71670 -.01510 .59950 1.54240 5.987 1.651 .00210 -.08090 9.71750 .04770 -.01080 .00000 .87960 -.01400 .00900 .60070 6.027 6.647 -.00100 .00278 -.01180 9.71980 .65480 -.01320 .00770 .00000 -.15900 .59940 6.074 14.133 .00280 -.00100 .00000 9.71600 .05470 -.01170 .00620 -.80680 -.01220 6.098 18.812 .60020 .00280 -.60189 9.71780 .04700 -.01140 .00000 .00320 -1.54470 -.00780 24,189 .60050 6.122 -.00002 -.00169 -.08008 .00010 .00023 -.00017 .00000 .00017 .08025 -.13920 GRADIENT .00/ 12.00 GRADIENT INTERVAL = RUN NO. 645/ 0 RN/L = 3.25 CS. BETA CY CLN PH1 ALPHAH BETAO DY MACH DX ALPHAD DZ -.00020 -.00030 -.01050 9,73420 .05720 .00000 -.01520 .00760 .59940 -.65090 -2.697 10.299 -.00050 -.00980 .00050 9.73240 .04110 .00800 .00000 -.01080 .60020 -1.07800 10.303 .285 -.01140 .00170 -.00070 .04770 .00000 9.73030 .00810 .60030 -1.57400 -.01440 4.651 10.323 -.60080 .00270 .04680 -.01260 .00630 .00000 9.72660 -.01300 .69030 -2.70650 12.103 10.355 -.00100 .05430 -.01250 .00310 .00000 9.71950 -.00870 .00170 -4.81800 27.416 .60060 10.431 .00290 -.00110 -.01180 9.71470 .05450 .00010 .00000 ~6.89330 -.00430 .60050 42.298 16.459 -.00100 .00320 -.01270 -.00120 .00080 9.71360 .05430 -.80290 -7,63780 47.714 .59970 10.464 .00027 -.00005 .00151 -,00037 .00000 -.C0034B .00002 -.00092 GRADIENT .00002 -.13650 GRADIENT INTERVAL = .00/ 12.00 3.28 RN/L = RUN NO. 644/ 0 CSL CLN CY BETAO PHI ALPHAR BETA DY DZ MACH DX ALPHAO .00010 .04100 -.00980 -.020109.76940 .00390 .00000 -.01310 -.738 .60050 -2.01430 14.701 -.00010 -.01090 .00070 .03260 .00000 9.76740 -2.43960 -.01170 .00370 .60030 14.691 2.335 -.00010 -.01120 .00150 9.76110 .03970 -.01650 .00270 .00000 -3.04150 14.699 6.812 .60050 .04640 -.01270 .00270 -.00040 9,75120 .00100 .00000 .59990 -4.16420 -.01910 14.542 14.714 -.00090 -.01320 .00350 .04580 -.00310 .00000 9.73740 -6.16288 -.01050 .60868 29.472 14.743 -.00100 9.72820 .05410 -.01230 .00310 -.00360 -.00260 .03033 44.335 .60010 -8.22650 14.754 -.00100 -.01210 .00310 .04650 -.00990 .00000 9.72010 -10.28770 .01310 .60020 14.762 59.151 .00018 .00000 -.00007

.00000

-.00141

## CARRIER DATA

(ACH056) ( D1 DEC 75 )

PARAMETRIC DATA

## REFERENCE DATA

#### 8.600 BETAC -.000 ALPHAC = SREF = 5500.0000 SQ.FT - XHRP = 1339.9000 IN.XC 3.000

REF = 3	:27.7880 IN. :27.7880 IN. :48.0400 IN. :0380	YMRP		BOO IN.YC				ELV-18 = ELEVON = BETAD = DX =	.000 5.000 .000 10.000	HACH = PHI = DY =	3.000 .600 .000
		RUN NO	. 634/ 0	RN/L =	3.30 GR	ADJENT INTERV	/AL = .0	12.00			,
٠			DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	C51.
ALPHAO	DZ	MACH	12.18910	03110	.01740	.00000	9.71230	.05728	08900	.00040	00060
5.917	-2.155	.59920		02850	.01660	.00000	9.71690	.04890	00910	.00100	00879
5.956	.903	.60070	11.76590	02580	.01440	.00000	9.71450	.64808	01010	.00190	00090
5.994	5.537	.59940	11.12250	02420	.01290	.00000	9.71670	.04760	01100	.00250	00100
6.038	12.684	.60000	10.12740	02490	.01020	.00000	9.71600	.05510	01120	.00270	00890
6.070	19.121	.59950	9.23370	02300	.00700	.00000	9.71520	.05500	01130	.00280	60100
6.098	25.727	.59960	8.31400	.00058	00047	.00000	00032	00019	00022	.00019	00004
	GRADIENT	08028	13966	•00020	00017	,0000					
	•	RUN NO	691/ 0	RN/L ■	3.24 GF	RADIENT INTER	VAL	12:08			
				<b>5</b> 11.0	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
ALPHAO	DZ	HACH	DX	DY	.01790	.00000	9,73900	.01070	01010	.00020	.02020
10.217	<b>-</b> 2. <b>77</b> 0	.59940	9.39150	01890		.00000	9.73760	.01010	01040	.00090	.00020
10.225	.202	.60059	8.99730	01030	.01690	.00000	9.73910	.02890	01190	.00220	.00000
10.259	5.665	.69030	0.31960	01770	.01580		9.73430	,00070	01210	.00270	08010
10.289	12.254	.60010	7.32340	01188	.01310	.08008	9.72900	.01580	01300	.00328	00030
10.356	27.323	.59960	5.23270	01300	.00800		9.72690	.00050	01193	.00250	00010
19.401	42.555	.59930	3.10580	00360	.00660		9.72320	.00840	01200	.00290	08020
10.410	48.530	.69030	2.27610	00620	.00500		.00031	00025	00031	.00027	00084
	GRADIENT	00004	13901	.00012	00023	.00000	.00031	00023		••	
		RUN N	o. 692/ O	RN/L =	3.23 G	RADIENT INTER	RVAL = .	00/12.00			
					55740	PHI	ALPHAH	BETA	CY	CLN	CSL
ALFHAD	DZ	HACH	DΧ	DY	BETAO		9.76440	00560	01090	.00060	.00040
14.599	286	.59960	7.86010	01000	.01200		9.76290	00628	01150		.00030
14.597	2.610	.59960	7.47010	01020	.01100		9.76070	.00000	01220		.00010
14.613	7.478	.60900	6.80220	01478			9.76250	.00770	01340		-100050
14.633	14.672	.68030	5.81800	02120				00020	01350		00040
14.673	29.795	.60000	3.73130	01120			9.74240		01240	_	00030
14.695	44.753	.59980	1.65330	01330			9.73500		01200		00020
14.712	59.602	.60090	41850	00080			9,78990		08014		-,00004
14.116	GRADIENT	.00000	13720	08092	00001	08000, 8	00045	.00144	~,usut		

DATE 01 DEC 75

TABULATED SOURCE DATA - CA20

PAGE 113

DATE OF DE		1,000									
			CV50	747/1	01 51	С	ARRIER DAT	A	(AGND5	7) (D1 DE	C 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
			1220.00	IBO IN.XC				ALPHAC =	8.000	BETAC -	.000
	500.0000 <b>50.</b> F							ELV-18 =	.000	ELV-08 =	3.000
	327.7806 IN.	YMRP		DO IN.YC				ELEVON =	5.000	HACH =	.600
	348.0400 IN.	ZMRP	<b>=</b> 190.00	108 IN.2C				BETAO =	.000	PHI =	.080
SCALE =	.0300							DX =	20.000	DY -	.000
									201000		
		RUN NO.	. 643/ 0	RN/L =	3.22	GRADIENT INTER	EVAL	00.51 \00			
ALPHAO	DZ	MACH	DX	DY	BETAC	) PHI	ALPHAN	EETA	CY	CLN	CSL
5.918	~3.193	.60060	22.40390	02500	.0185	00000. 00	9.70870	.04920	00820	00030	00060
5.942	094	.60060	21.97440	02980	.0174		9.70850	.05680	00880	.00850	00080
5.973	4.408	.60010	21.34670	02910	.0158	00000.	9.70990	.05610	08990	.00139	00090
6.011	11.874	.60030	20.31020	02640	.0120		9.70990	.65540	01040	.00280	00090
6.079	26.802	.60020	18.22690	01920	.007		9.71150	.04720	01140	.00270	00090
6.0.5	GRADIENT	.00003	13983	.00036	0004		.00000	00009	0000B	.00003	.00000
	GRADIENT	.00005									
		RUN NO.	. 674/ 0	RN/L =	3.27	GRADIENT INTER	WAL	00/ 12.00			
ALPHAO	DŽ	MACH	DX	DY	BETAG	D PHI	ALPHAN	BETA	CY	CLN	CSL.
10.226	-1.405	.59930	19.22120	.08080	.017	70 .00000	9.73920	00559	01040	.08080	-00000
10.235	1.641	.60060	10.80350	.00330	.016	00000.	9.73750	01420	01170	-00160	00010
10.253	6.023	.60050	18.19850	.00170	.0139	00800. 08	9.73650	00710	01250	.08280	00030
10.230	13.703	.68070	17.13510	.00620	.012	.00000	9.73300	01539	01310	.00310	00040
10.351	28.615	.59970	15.05930	.00700	.808	00000. 00	9.73110	00770	01330	.00330	00840
10.395	43.888	.60080	12.92800	.80900	.005	08080. 08	9.72550	00750	01240	.00320	00030
10.403	49.633	.59990	12.11970	.00900	.084	00000.	9.72910	00730	01190	.00300	00030
10.400	GRADIENT	00002	13609	00037	000	00000. 53	88083	.00162	00018	.00018	00005
	0,1,1,0,1,0,1										
		RUN NO	. 675/ 0	RN/L =	3.27	GRADIENT INTE	RVAL =	.00.12.80			
ALPHAO	DZ	HACH	DX	DY	BETA	O PHI	<b>ALPHAW</b>	BETA	CY	CLN	CSL
14,444	1.517	.60060	17.56580	.01060	.011	00000. 00	9.75870	02180	01030	.00130	.08010
14.457	4.549	.59960	17.14959	.00590	.009	08880. 07	9.75720	01490	01220	.00220	.00000
14.478	9.843	.59980	16.53140	00060	.009	00800.	9.75430	00770	01290		.00000
14.497	16.873	.60010	15.45500	.00340		00800. 04	9.74680	01590	01350		00020
14.563	31.919	.55990	13.35970	.00580	.801	0000Q <b>.</b> Q2	9.73960	01590	01360		00040
14.607	46.722	.60090	11.30630	00570		00000. 08	9.73640	00030	01300		00030
14.699	62,461	.59960	9.09770	.00820	008		9.73250		01250		00030
,	GRADIENT	00009	13746	00148	080	24 .00000	00059	.00105	00026	.00019	00001

CA20 747/1 01 SI

CARRIER DATA

(AGN058) ( 01 DEC 75 )

## REFERENCE DATA

# PARAMETRIC DATA

	REFEREN	CE DATA									
LREF .	327.7800 IN 327.7800 IN 2348.0400 IN	, YHRP		000 IN.XC 000 IN.YC 000 IN.ZC		•••		ALPHAC = ELV-1B = ELEVON = BETAO = OX =	4.000 .000 5.000 .000	BETAC = ELV-DB = HACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO.	775/ 0	RN/L =	3.33	GRADIENT INTE	RVAL .	00.51 \00			
_		****	DX	YQ	BETAC	) PHI	ALPHAH	BETA	CY	CLH	CSL
ALPHAG	DZ	MACH	85680	9.98100	.0216		5.83050	.01560	01770	00740	.00960
10.535	-1.419	.60030		9.97800	.023		5.82840	.02110	01730	00510	.00800
10.526	1.326	.68030	.67100		.0229	••	5.81890	.00970	01980	00110	.00610
10.524	5.839	.60078	.36640	9.97700	.019		5.81440	.00550	02140	.00220	.00430
10.524	13.085	.59950	12830	9.97800	.015	• • • • • • • • • • • • • • • • • • • •	5.80330	.01060	02310	.00610	.00210
10.538	28.455	.60020	-1.17810	9.96970			5.79600	.01030	02069	.00640	.00089
10.542	43.191	.60090	-2.16280	10.00100	6807 003		5.79670	.01100	01870	.00560	_000 <b>70</b>
10.542	47.091	.69080	-2.45280	10.00520	000	••	00211	00253	00055	.00089	80042
	GRADIENT	.08009	06751	00022	000	01 .00000	100411				
		RUN NO	781/ 0	RN/L =	3.22	GRADIENT INTE	RVAL .	00.51 \00.			
		MACH	DX	DY	BETA	o PHI	ALPHAH	DETA	CY	CLN	CST.
ALPHA0		.68080	35660	9.94370	.018	00000. 00	5.85870	.02570	02610	01020	.01450
14.865	1.432	.60809	60690	9.94940	.021	10 .00000	5.86350	.02250	02300	00690	.01240
14.849	5.001	.60050	87520	9.95810	.020		5.85720	.08928	02810	00080	.00960
14.643	8.690		-1.41420	9.95810	.015		5.84460	.00110	03060	.00470	.00620
14.834	16.716	.60050	-2.32080	9.99930			5.02750	00030	03210	.00950	.00290
14.831	29.965	.60070	-2.41550	9.98990	-		5.82636	.00740	03169	<b>02</b> 20.	.00260
14.830	31.354	,60840	-3.46170	10.08590			5.81770	.00830	02630	.03860	.00130
14.828	46.543	.60000	-4.50100	10.0350			5.80820	.01030	02030	.00630	.00070
14.020	61.677	.59960	06953	.00166			00154	00223	00028	.00127	00055
	GRADIENT	00004	05533	.00100							

DATE GI DE
------------

SCALE .

ALPHA0

10.410

10.404

10.407

10.424

10.437

SREF - 5500.0000 SQ.FT.

EREF = 2348.0400 IN.

= 327.7680 IN.

.0300

DZ

-2.369

1.142

5.650

13.193

27.955

REFERENCE DATA

YMRP =

ĐΧ

8.60350

9.99570

MACH

.59950

.60030

.60010

.60040

.60000

TABULATED SOURCE DATA - CA20

(AGN059) [ 01 DEC 75 ] CARRIER DATA CA28 747/1 01 S1 PARAMETRIC DATA BETAC = .000 ALPHAC = 4.090 XMRP = 1339.9080 IN.XC ELV-00 -3.000 ELV-19 -.080 .0000 IN.YC .600 ELEVON = 5,000 HACH = ZMRP - 190.8008 IN.ZC PH1 .000 BETAO -.800 DY 10.000 ĐX 10.000 GRADIENT INTERVAL . .00/ 12.00 RN/L = 3.31 RUN NO. 735/ 0 CSL. CLN ALPHAN EZTA CY PHI **SETAO** DY -.00320 .00800 -.01210 5.86010 .00060 .00800 10.89070 9.99070 .02220 .00650 -.08560 -.01220 .00000 5.85050 .00500 9.98750 .02500 10.65090 .00500 -.80520 -.01540 -.00188 .02370 .00000 5.85670 10.34646 9.98660 .00360 .00160 -.01810 .00000 5.65130 -.00840 .01698 9.98960 9.81870 .00150 .00570 5.64270 -.00450 -.02140

-.01960

.00610

.00040

PASE 115

10.445 10.445 10.450	42.957 46.957 GRADIENT	.59950 .60000 00804	7.77080 7.49300 05888	10.00860	.00120 00140 00029	.00000 .00000 .00000	5.83459 5.83280 00084	01260 00430 00240	01969 01810 08071	.00610 .06550 .00094	.08040 .08040 08033
		RUN NO	. 738/ 0	RN/L =	3.24 GRAS	DIENT INTER	IVAL = .0	0/ 12.00			
ALPHAD 14.679 14.671 14.668 14.673 14.673 14.692 14.693	DZ 128 3.023 7.553 14.659 30.066 44.947 59.657 GRADIENT	MACH .60020 .60010 .60060 .60060 .60060 .60050	DX 9.59730 9.39050 9.05900 8.56540 7.51490 6.48600 5.43820 ~.06979	DY 9.97850 9.97590 9.97480 9.98310 10.02810 10.02130	EETAO .01040 .01530 .01440 .01020 .00090005900138000020	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.69440 5.69500 5.66550 5.67610 5.65360 5.65630 00095	85TA 00270 00540 08590 01910 02340 02250 00499	CY0132001410023300233003020035200194000203	CLN 01310 00910 00130 .00470 .00930 .00840 .00810 .00172	CSL .01290 .01090 .00820 .00540 .00540 .00090 .00030

.00000

GRADIENT

-.13546

		CA20 747/1 01 51	CARRIER DATA	(ACH050) ( 01 DEC 75 )
	REFERENCE DATA		P)	RAMETRIC DATA
SREF		= 1339.9000 IN.XC = .0000 IN.YC	ALPHAC = ELV-18 =	8.000 BETAC # .000 .000 ELV-CB # 3.000

LREF =	500.0000 S 327.7800 1 348.0400 I	4 4	= .0 = 190.8	000 IN.XC 000 IN.YC 000 IN.ZC	3.24 G	RADIENT INTER	VAL	ALPHAC = ELV-19 = ELEVON = BETAO = DX =	8.000 .000 5.000 .000	BETAC # ELV-C8 # HACH # PHI # DY #	.000 3.000 .600 .000
				54	EL TAO	PHI	ALPHAH	BETA	CY	CLN	CSL
ALPHAO	DZ	MACH	DX	DY		.00000	9.67770	.00770	02270	00480	.00348
10.368	-1.757	.60010	78530	10.03930	.00620	.00000	9.67470	.01270	02370	00190	.00290
10.376	.812	.60656	-1.13020	10.01369	.01490	.00000	9.67280	.01640	02330	.00050	.00240
10.393	5.122	.59910	-1.71639	9.89440	.02190		9.67120	.0750	02400	.00360	.00170
10.433	12.363	.69010	-2.71010	9.97970	.02489	.00000	9.66450	.00390	02580	.00769	.00310
10.490	27.851	.59950	-4.84220	9.98430	.01500			.00540	02020	.00590	00030
10.511	42.980	.59990	-6.92130	9.99200	.00710		9.65560		01920	.00560	00040
10.512	46.793	.59930	-7.44818	9.99030	.00520		9.65390	.02120	.00009	.00056	00012
	GRADIENT	00932	13600	00446	.00162	.00000	08844	00053	.00003	.00000	-100016
		RUN NO	. 787/ 0	RN/L =	3.18 6	RADIENT INTER	IVAL	00/ 12.00			
A1 01110	ΩZ	HACH	DX	DY	BETAO	PHI	ALPHAH	<b>BETA</b>	CY	CLN	CSL
ALPHAO	.306		-2.12040	10.88190	.00500	.00000	9.69920	.02650	02910	00970	.01000
14.755	3.230		-2.51630	9.58410	.01160	.08880	9.69640	.02840	03290	00250	.00830
14.757	7.801	.60060	-3.13560	9.96970	.01720		9.69090	.02280	03630	.00350	.00670
14.768			-4.13630	9.96310	.01620		9.69370	.01690	03640	.00760	.00460
14.743	15,148		-4.17270	9.96030	.01690		9.68250	.01888	03650	.00780	.00470
14.783	15.383		-6.21870	9.96960	.00920		9.65773	.00970	03130	.00930	.00220
14.805	30.352		-8.27030	9.98520	.00220		9,66150	.01890	02570	.00810	.00070
14.814	45.218		-10.34390	10.00840	06810		9.65530	.02059	01960	.00800	.00010
14.814	60.205		13546	08420	.60159		00112	00056	00094	.00160	00043
	COARICHT	111011114		-,00760	,00.0.						

DATE DI DEC 75

TABULATED SOURCE DATA - CA20

O TUTAL OLSE CARRIER DATA

DATA (AGNOSI) ( 01 DEC 75 )

PAGE 117

			CA20	747/1	01 SI	C	ARRIER DAT	^	(ADMOD		
	REFERENCE	DATA							ARAHETRIC	DATA	
_			- 1370.0	000 IN.XC				ALPHAC =	8.00D	BETAC =	.800
	509.8000 <b>SQ</b> .F			OSO IN.YC				ELV-18 *	.000	ELV-08 -	3.000
	327.7800 IN.	YMRP	• -	080 IN.TC				ELEVON =	5.000	HACH =	.600
	348.0400 IN.	ZMZP	= 199.8	DEG MALZE				BETAD -	.000	PHI ·	.688
SCALE =	.0300							ex •	10.000	DY -	10.000
		RUN NO.	736/ 0	RN/L -	3.27	GRADIENT INTER	EVAL	00/12.00			
ALPHAO	DZ	MACH	ĎΧ	DY	BETA	D FHI	ALPHAH	BETA	ÇY	CLN	CSL.
10.233	-3.822	59980	9.54280	10.05490	.005	00000. 00	9.72970	00620	01740	60538	.00290
10.250	443	59940	9.08310	10.02460	.014	00000. 09	9.72640	00130	0179D	00540	.00250
	3.946	,60060	8.47550	10.00570	.021	00000.	9.72760	00370	01830	00080	.00220
10.273	11.425	69960	7.44950	9.99240	.024	10 .00000	9.72290	00859	01970	.00220	.00160
10.306 10.370	28.395	.69930	5.36850	9.89710	.014	00000.	9.72260	01069	02330	.00550	.00048
10.405	41.249	.60010	3.303R0	10.00370	.008	00000. 05	9.71680	08950	01920	.00540	00010
10.405	47.343	.60010	2.45280	10.00480	.803	40 .00000	9.71510	00120	+.01720	.00480	00020
10.417	GRADIENT	00013	13771	00191	.000	31 .00000	80053	00037	00012	.00040	00008
		RUN NO.	737/ 0	RN/L =	3.24	GRADIENT INTER	RVAL -	.00/ 12:0:			
ALPHAD	OZ	MACH	DX	ΟY	BETA	o PHI	ALPHAH		CY	CLN	C2T
14.551	-1.912	.59990	8.11220	10.04110	.003	.00800	9.75230	01040	02070	01050	.00800
14.559	1.350	.60000	7.66660	10.02940	.010	00000.	9.75390		02540	05420	.00650
14.571	5.795	.59930	7.05740	10.00480	.013		9.74970		03640	.00170	.00540
14.596	13.276	.59950	6.02790	9.99330	.013		9.74290		03390	.00700	.00370
14.628	27.980	.60090	3.99750	9.99690	.804		9.73330		03130	.00930	.00170 .00060
14.652	43.114	.60690	1.69710	9.99740	000		9.72630		02520	.00800	.00020
14.659	57.869	.60010	16040	10.01600	010		9.72200		01930		00025
	GRADIENT	00016	13693	00553	.000	174 .00000	00117	.00225	00112	.00133	600053

PAGE 118 TABULATED SOURCE DATA - CARD DATE OI DEC 75 (S80MDA) ( O) DEC 75 ) CARRIER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = -5.000 XMRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. 3.000 .000 ELV-08 = ELV-IB . .0000 IN.YC YHRP = 327.7800 IN. HACH .600 ELEVON = 5.000 190.8000 IN.ZC ZHRP = BREF = 2348.0400 IN. .000 PETAD = .000 PHI SCALE = .0300 DY .000 .000 ΠX GRADIENT INTERVAL -.00/ 12.00 3.23 RUN NO. 649/ 0 RN/L = CSL CLN ALPHAH BETA CY DY BETAO PHI HACH DX **ALFHAO** DZ .01649 .10580 -.02000 .03310 .00000 5.86240 -4.93170 .59940 .80340 1.02360 -1.137 10.509 -.02320 .01670 .02650 .00000 5.65990 -4.97100 .18440 .53910 .60690 1.04188 1.805 10.494 -.02370 .01640 .00000 5.85558 -4.97800 .10110 1,07360 .01560 .29110 .60010 10.489 6.479 -4.97850 .09710 -.02310 .01610 5.85080 .08550 .00000 -.23620 1.09950 14.163 .59930 10.492 .09200 -.02160 .01550 -4.97200 .00000 5.83910 1.11960 -.00330 28.706 .59930 -1.23230 10.585 .08890 -.02000 .01490 .00000 5.833BD -4.98120 -.00420 .59920 -1.827901.12640 37.359 10.50B -.02040 .01470 5.83110 -4.98850 .08970 .00800 -2.28840 1.12900 -.00370 44.033 .59940 10.511 -.00006 -.00071 -.00011 -.00094 -.00150 .00000 .00697 -.00233

-.06757

-.06914

.00021

.00004

**GRADIENT** 

GRADIENT

.00/ 12.00 GRADIENT INTERVAL = 3.23 RUN NO. 648/ 0 RN/L = CSL. CY CLN **ALPHAN** DETA **BETAO** PHI DY MAC I DX DZ ALPHAO -.02200 .01720 -4.94920 .10420 5.88900 -.36760 .95890 .02150 .00000 .59980 14.015 1.009 .01770 -.02460 5.88950 -4.94670 .10350 .01680 .00080 -.59540 .96740 .60030 14.791 4.326 -4.95920 .10160 -.02520 .01740 .00000 5.EB650 .99440 .01090 8.540 .60010 -.86820 14.781 .09380 -.02210 .01670 .00000 5.87180 -4.97850 1.01620 .00320 .60000 -1.39450 15.930 14.774 .01520 .08730 -.01910 -.08590 00000. 5.85680 -4.97430 ,59970 -2.44090 1.04050 14.772 31.119 .08900 -.02030 .01520 5.84340 -4.97320 -.00799 .00000 -3.47B10 1.04640 14.770 46.180 .59930 -.02880 .01950 -4.98050 .09000 5.03510 1.05280 -.01630 .00000 .60089 -4.51680 61.235 14.771 .00002 -.00035 -.00041 .00000 -.00035 -.00277

-.00141

.00479

ð

PAGE 119 TABULATED SOURCE DATA - CARD DATE OI DEC 75 (ACNOSE) | 01 DEC 75 | CARRIER DATA 747/1 01 SI PARAMETRIC BATA REFERENCE DATA 4,000 SETAC . -5.000 ALPHAC = 1339.9000 IN.XC \* 9FHX 5508.0000 50.F1. SREF \* 3.000 ELY-08 -.000 £LV-18 -.0000 IN.YC YHRP . 327.7800 IN. .600 ELEVON = 5.000 MACH ZMRP 190.8000 IN.ZC BREF = 2348.0400 IN. .000 .000 PHI BETAO = .0320 SCALE = .000 ĐΥ 10.000 .00/ 12.00 GRADIENT INTERVAL -RN/L = 3.29 RUN NO. 587/ 0 CST CY CLH ALPHAH BETA PHI BETAD ĐΧ DY MACH **ALPHAO** DZ .01620 .10280 -.01990 -4.98130 5.85970 .03370 .00080 10.77730 1.90140 -1.285 .59940 10.465 .01640 .10350 -.02310 .00000 5.86910 -4.97840 1.91000 .02940 .60020 10.60790 1.344 10.394 .10000 -.02350 .01630 -4.95980 5.CES40 .02040 .000008 10.27400 1.93450 .60060 6.229 10.395 .01580 -.02300 .09630 5.85110 -4.97800 .01170 .00000 1.95970 9.74720 .68080 10.414 13.845 .01550 -.02190 5.65270 -4.97890 .09200 .00000 1.97770 .00290 8.71070 28.689 .60030 10,432 .01489 .08930 +.02050 -4.93020 5.84450 .00130 .00000 7.69350 1.98520 .59900 43.758 10.441 .01460 -.02080 .08990 5.64530 -4.97990 .00000 .00080 1.88630 7.39000 .60080 10,445 48,107 -.000008 -.03002 -.00074 .00000 -.00055 .00012 -.00184 .00502 -.06935 GRADIENT .00008 .00/ 12.00 3.26 GRADIENT INTERVAL = RUN NO. 698/ 0 RN/L = CLN CSL CY ALFHAH BETA PHI DY BETAG MACH ĐΧ ALPHAO DZ -.02420 .01778 5.75210 -4.94570 .10610 .02050 .00200 1.81420 9.54500 .60040 14.748 1.142 .01770 -.02620 5.75270 -4.95250 .10510 .01690 .00000 1.81850 .59970 9.34440 4.240 14.723 .01730 -4.97680 .09990 -.02470 .00000 5.74690 1,84460 .01430 9.05210 .59970 8.654 14.719 .09080 -.02090 .01640 .00000 5.73890 -4.97240 .00900 8.54770 1.86060 16.242 .59940 14.719 -.01890 .01510 5.72550 -4.93170 .08590 .00000 1.68230 .00080 .59950 7.56580 19.721 31.044 .01480 .08710 -.01970 5.71610 -4.93100 1.89790 -.09130 .00000 6.54430 .59940 46.344 14.728 .01450 -4.98780 .08940 -.02070 .00000 5.70940 -.00830 1.90280 5.56340 60.991 .59900 14.727

-.00084

.00417

-,05566

-.00009

GRADIENT

-.00095

-.00073

.00000

-.00411

-.08004

-.00006

68.431

GRADIENT

14.73000

- .06977

.60030

.00003

2.77580

.00046

-.01180

-.00087

-.000009

.00046

CA20 747/1 01 S1

CARRIER DATA

(AGNOBY) 1 01 DEC 75 1

FRENCE	

#### PARAMETRIC DATA -5.000 ALPHAC . 4.000 BETAC -XHRP = 1339,9000 IN.XC SREF = 5500.0000 SQ.FT. ELY-08 = 3.000 ELY-18 -.000 YMRP = .0000 IN.YC = 327.7800 IN. .600 ELEVON . 5.000 HACH 190.8000 IN.ZC ZMRP \* BREF = 2348.0400 IN. .000 PHI .500 BETAO = SCALE -.0300 20.000 DY .000 DX GRADIENT INTERVAL = .00/ 12.00 3.30 RUN NO. 678/ 0 RN/L -CSL CLH DETA CY **BETAO** PHI **ALPHAH** DY MACH DX ĐΖ **ALPHAO** .01609 -4.99440 .10150 -.02320 5.84730 .02050 .00000 2.83640 .60010 20.41600 10.318 3.700 +.02380 .01590 -4.98620 .10050 5.84340 20.22210 2.83310 .01590 .00000 10.322 6.553 .59978 .01570 -.02360 .00000 5.84120 -4.99390 .09870 2.84400 .01170 .60090 19.89920 10.\_43 11.191 .01580 .09630 -.02320 5.83970 -4.98650 .00640 .00000 2.84640 .59990 19.38810 18.631 10.354 .01510 +.02080 5.83370 -4.98860 .09040 .00000 19.33430 2.85720 .00180 .60090 33.918 10.379 .014B0 -4.98840 .09080 -.02100 -.03110 .00000 5.82690 2.86390 .60020 17.34840 10.388 48.230 -.00004 -.08078 -.00010 -.00038 -.00004 .00000 -.00316 -.06905 .00114 GRADIENT \$1000. GRADIENT INTERVAL = .00/ 12.00 RUN NO. 571/ 0 3.30 RN/L = CLH CSL CY DETA DY **BETAO** PHI ALPHAH MACH DX DZ **ALPHAO** .01730 5.86040 -4.98530 .10120 -.02500 .000000 2.72590 .01240 .69010 18.90670 14.501 7.815 -.02350 .01700 -4.98660 .09770 5.85980 2.72740 .00960 .00000 11.048 .60020 18.69440 14.584 .01540 5.85870 -4.98820 .09320 -.02150 .00590 .00000 .60040 10.37820 2.73100 15.518 14.509 .01590 .08920 -.02000 5.85070 -4.98950 17.66830 2.73860 .00130 .00000 .60090 14.516 22,987 .01530 .08860 -.02020 .00110 .00000 5.84180 -4.98930 2.74690 16.63330 .59990 14.524 38.017 .08850 -.02010 .01480 5.83510 -4,98920 -.08428 .00000 2.76460 52.676 .60080 15.82650 14.529 -.02130 .01460 -4.98810 .09100

.00000

.00000

5.83000

-.00019

-.00040

-.00108

DATE OI DEC 75

TABULATED SOURCE DATA - CA2D

PAGE 121

			CVSO	747/1	01 SI	C	CARRIER DAT	'A	(AGNOE	51 £ 01 D	EC 75 1
	REFERENC	CE DATA							PARAHETRIC	: DATA	
SREF = !	500.0000 SQ. 327.7800 IN.			000 IN.XC				ALPHAC +	8.000	BETAC -	-5.000
	327.7800 1M. 2348.0400 1M.			000 IN.ZC				ELV-18 = ELEVON =	.800	ELV-OB =	3.000
SCALE =	.M1 00F0.0FE	LINUT	- 130.6	100 IM.ZC				BETAD =	5.000 .000	HACH = PHI =	.609 .003
JUNEE -	.0380							DX =	.000	OY •	.000
		RUN NO.	650/ 0	RN/L =	3,23 GF	RADIENT INTER	IVAL = .	00/ 12.00			
ALPHAO	DZ	HACH	DX	DY	DETAG	PHI	ALPHAH	BETA	CY	CLN	CSL
18.285	-2.680	.59910	68300	.97220	.09130	.00000	9.73440	~4.98470	.10530	01442	.01418
10.303	.275	.59920	-1.10310	1.02140	.06460	.00000	9.73380	-4.98020	.10110	01910	.01510
10.329	4.787	.59920	-1.71740	1.07390	.03930	.00000	9.73230	-4.98730	.09550	01970	.01510
10.366	12.206	.59950	-2.73470	1.11610	.01850	.00000	9.72900	-4.97920	.09060	01990	.01530
10.440	27.765	.59990	-4.89330	1.15250	00010	.00000	9.72430	-4.97340	.08420	01760	.01500
10.469	42.705		-6.96639	1.16390	00170	.00000	9.71690	-4.98020	.08570	01850	-01500
10.475	47.740		-7.65500	1.16600	60340	.00000	9.71310	-4.97950	.08650	01890	.01510
	GRADIENT	.00000	13613	.01163	00561	.00000	80033	00157	00124	00013	.00000
		RUN NO.	. 651/ 0	RN/L =	3.22 GF	RADIENT INTER	WAL = .	00/ 12.00			
ALPHAO	ΩZ	HACH	ВX	DY	BETAD	PH1	ALPHAN	BETA	CY	CLN	CS.
14.668	982	.60030	-2.08460	.90170	.06840	.00000	9.76620	-4.94790	.10820	02140	.01510
14.656	2.094	.60850	-2.41440	.94088	.04440	.00000	9.76530	-4.94600	.10430	02330	.01590
14.666	6.577	.60090	-3.02330	.98050	.02720	.00000	9.75850	-4.94030	.09590	02080	.01560
14.686	14.365	.60970	-4.09400	1.02280	.01090	.00000	9.75280	-4.98110	.08700	01820	.01530
14.713	29.395	.60010	-6.16750	1.08310	00360	.00000	9.73950	-4.98140	.08380	01760	.01500
14.725	44.077	.59950	-8.20840	1.07790	00530	.00000	9.73030	-4.98680	-08420	01790	.01480
	GRADIENT	.00009	13582	.00886	00394	.08080	00152	.00127	00195	.00056	0000*

CARRIER DATA

(AGN066) ( 01 DEC 75 )

	REFERENC	E DATA			PARAMETRIC DATA								
LREF *	5500.0800 SQ. 327.7800 IN. 2348.0400 IN. .0300	YHRP	= ,0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAD =	8.000 .000 5.000	BETAC = ELV-OB = HACH = PHI =	-5.000 3.000 .600		
								DX -	10.000	DY =	.000		
		RUN NO.	620/ 0	RN/L =	3.24 6	RADIENT INTERV	/AL = .	00.11 100					
ALPHAO	DZ	МАСН	OΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.		
10.206	-2.705	.59930	9.36200	1.88080	.07970	.00000	9.73680	-4.99820	.10018	01580	.01580		
10.219	.329	.60060	8.95250	1.90700	-06110	.00000	9.73598	-4.97970	.69740	01890	.01640		
10.243	4.772	.60000	8.34240	1.94530	.04190	.00000	9.73540	-4.98670	.09330	01960	.01640		
10.288	12.369	.68600	7.29150	1.98070	.02420	.00000	9.73300	-4.98620	.08990	02000	.01670		
10.356	27.344	.59990	5.21050	2.01480	.00890	.00000	9.73050	-4.99540	.08460	01830	.01640		
10.397	42.540	.59940	3.09140	2.02090	.00630	.00000	9.72630	-4.98720	.08530	01870	.01630		
10.407	48.5!1	.63000	2.25840	2.02640	.00300	.00000	9.72420	-4.98700	.08570	01890	.01630		
	GRADIENT	00014	13734	.00862	00432	.00800	00011	0015B	00092	00016	.00000		
		RUN NO.	689/ 6	RN/L =	3.25 G	RADIENT INTERV	/AL = .	.00.12.00					
ALPHAO	DZ	насн	DX	DY	OATES	PHI	ALPHAH	BETA	CY	CLN	CSL		
14.592	-,448	.59960	7.86760	1.78020	.05410	.00000	9.76408	-4.95400	. 10410	02230	.01670		
14.594	2.909	.60010	7.41550	1.81260	.04160	.00000	9.76290	-4.95290	.10040	02340	.01680		
14.610	7.309	.60030	6.81330	1.84130	.03010	.00000	9.75780	-4.95500	.09290	02090	.01640		
14.636	14.529	.60000	5.81930	1.88240	.01770	.00000	9.75460	-4.99580	.08570	~.01830	.01650		

.00380

.00160

-.00650

-.00266

.00000

.00000

.00808

.00000

9.74490

9.73540

9.73189

-.00116

-4.98070

-5.00370

-4.98710

-,00048

.08260

.08280

.08510

-.00178

-.01770

-.01780

-.01890

.00057

.01610

.01580

.01500

-.00009

.

3.70390

1.61150

-.45210

-.13684

.59980

.59970

.60060

.00005

29.855

44.920

59.693

GRADIENT

14.677

14.699

14.711

1.90570

1.92310

1.93410

.00652

:

PAGE 123 TARRATED SOURCE DATA - CA20 DATE OI DEC 75 (AGN057) ( 01 DEC 75 1 CARRIER DATA CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA -5.008 ALPHAC = 8.000 BETAC = XHRP 1339,9000 IN.XC SREF = 5500.0000 SQ.FT. 3.000 .080 ELY-09 \* ELV-18 = .0800 IN.YC YHRP 327.7800 IN. HACH .600 5.000 ELEVON = 190.8000 IN.ZC 2348.0400 IN. ZHRP GREF . .000 PHI BETAO -.000 SCALE = .0300 .000 DY DX 20.000 GRADIENT INTERVAL . .00/ 12.00 3.28 RUN NO. 673/ 0 RN/L = CSL CLN BETA CY PHI ALPHAH BETAO DY DΧ ALPHAO DZ HACH .01440 -4.99720 .69660 -.01780 9.73230 .00000 .05290 .60040 19.17340 2.82580 -1.170 10.219 .01490 .09380 -.01900 -4.98830 .00000 9.73270 2.83210 .03910 .59930 18.74300 1.973 10.227 -.02010 .01470 .09290 9.73250 -4.99450 .02700 .60800 18.12870 2.85480 6.418 .60050 10.253 .09120 -.02060 .01520 -4.98660 .00000 9,73000 17.11080 2.87030 .01650 .59970 13.777 10.286 .01510 -.01860 9.72870 -4.98820 .03570 .08590 .00000 2.88840 14.99660 .60080 10.356 28.93B .01490 -4.98800 .08590 -.01890 .08000 9.72290 .00370 .59940 12.67230 2.89550 44.164 10.397 -.01910 .01500 .08620 9.71950 -4.99780 .00000 2.89960 .00120 12.11340 .59970 49.620 10.406 -,000004 -.00025 -.00020 .00000 -.00005 -.00148 -.00272 .00511 .00027 -.13920 GRADIENT GRADIENT INTERVAL . .00/ 12.00 RN/L -3.28 RUN NO. 672/ 0 CSL CY CLN ALPHAH BETA BETAO PHI ĐΧ DY MACH DZ **ALPHAD** -.02380 .01550 .10190 9.75470 -4.95350 .00000 2.78460 .03430 17.50970 .59920 14.374 1.887 .01510 -.02270 9.75110 -4.94650 .09770 .02630 .00000 2.71260 .59960 17.08360 14.386 5.002 .01530 -4.98660 .09250 -.02100 9.75120 .01890 .00000 2,74660 16.48890 .60070 9.317 14.403 -.01980 .08860 .01520 .00000 9.74480 -4.9962D .01050 2.76710 .60030 15.44000 14.432 16.929 .01530 -4.98890 .08410 -.01820 9.73740 .00000 .00190 13.33650 2.77920 .60020 14.474 32.120 .01510 -.01810 .08420 9.73650 -4.98880 -.00188 .00000 2.78500 11.26920 .60020 14.499 46.955 .01500 -.01910 9.72720 -4.98799 .08580 .00000 -.00980

.00038

-.00475

-.60844

.00000

-.00126

-.00002

2,79800

.00579

-.00205

.60070

.00021

14.362

69.73B

GRADIENT

9.37410

-.13741

14.622

46.606

61.410

GRADIENT

.59980

.60010

-.00907

-3.4B110

-4.49630

-.07001

11.00070

11.01650

.00341

-.00680

-.01520

-.00081

.00000

.00888

.00000

5.01640

5.80690

-.00112

-4.99650

-4.99090

.00031

.06950

.00190

-.00108

-.01160

-.01770

.00092

.01560

.01560

-.00036

CA20 747/1 01 St CARRIER DATA 1 01 0EC 75 1 (AGNOEB) REFERENCE DATA PARAMETRIC DATA SREF = 5500.0000 SQ.FT. XHRP 1339.9000 IN.XC \* ALPHAC = 4.000 BETAC --5.000 LREF \* 327.7800 IN. YHRP .0000 IN.YC ELV-18 # .880 ELY-08 = 3.000 BREF = 2348.0400 IN. ZMRP = 190.8000 IN.ZC ELEVON . 5.000 HACH = .600 SCALE = .0300 BETAG = .000 PHI .000 DX .000 DY 10.000 RUN NG. 776/ 0 RN/L = 3.29 PRADIENT INTERVAL = .00/ 12.00 **ALPHAO** DΖ HACH DX DY BETAO PHI **JLPHAH** BETA CY CLN CSL 10.526 -1.143 .60050 .82500 11.02580 .03330 .00000 5.02390 -4.98300 .08580 -.02630 .02380 10.516 1.191 .59940 .66590 11.02200 .03310 .00000 5.02210 -4.9835D .09650 -.02580 .02340 10.514 5.570 .59990 .36930 11.02810 .02930 .00000 5.81590 -4.28570 .08330 -.02330 .02220 10.520 13.286 .59990 -.15820 11.04109 .01988 .00000 5.01020 -4.97390 .07750 -.01930 .02000 10.530 28.354 .59970 -1.18290 11.05950 .00500 .00000 5.80160 -4.99410 .07280 -.01410 .01670 10.538 43.310 .60828 -2.20400 11.08460 -.00370 .00000 5.79490 -4.99160 .08000 -.01690 .01560 10.536 47.055 .60050 -2.45960 11.09530 -.00430 .00000 5.79340 -4.99080 .0B200 -.01780 .01550 GRADIENT .00011 -.06774 .00139 -.00007 .00000 -.00142 -.00059 -.00073 .00057 -.00027 RUN NO. 782/ 0 RN/L = 3.21 GRADIENT INTERVAL -.00/ 12.00 **ALPHAD** DZ HACH ĐΧ DY DETAD PHI ALPHAH BETA CY CLN CSL 14.652 1.732 .59980 -.39120 10.90410 .03150 .00000 5.85610 -4.98030 .08100 -.02940 .02920 14.836 4.566 .59980 -.58540 10.91290 .03110 .00000 5.85110 -4.98100 .08110 -.02860 .02790 14.828 8.860 .59930 -.68970 10.92830 .02600 .00000 5.84790 -4.97830 .07370 -.02310 .02650 14.824 16.510 .59970 -1.41720 10.95100 .01650 .00000 5.83890 -4.98390 .06600 -.01690 .02340 14.826 31.452 .59940 -2.44000 10.98190 .00210 .00000 5.82350 -4.99498 .05230 -.00480 .01720

, n

. . .5

BLIDVIO 2003 40

DATE OF DEC 75

CX20 747/1 01 51 CARRIER DATA (REDIKOA) ( 0) DEC 75 1 REFERENCE DATA PARAHETRIC DATA SREF - 5500.0000 SQ.FT. XHRP 1339.9000 IN.XC ALPHAC = 4.000 BETAC = -5.000 LREF 327.7800 IN. YHRP .0000 IN.YC ELV-IB \* .080 ELV-08 = 3.000 BREF = 2348.0400 IN. ZHAP 190.8000 IN.ZC ELEVON -5.000 KACH .600 SCALE = .0300 BETAD = .000 PHI .000 ĐΧ 10.000 DY 10.000 RUN NO. GRADIENT INTERVAL -0/ 0 RN/L = 3.24 .00/ 12.00 14.3 **ALPHAO** ĐΖ MACH ĐΧ DY BETAG PHI **ALPHAH** BETA CY CLN CSL 10.422 -2.280 .60090 10.86020 11.92480 .02940 .00000 5.86230 -4.99330 .08920 -.02620 .02170 10.405 1.098 .60050 10.63330 11.90880 .03080 .00000 5.86150 -4.99070 .08930 -.02640 .02193 10.409 5.675 .69010 10.31780 11.91340 .02640 .00000 5.85890 -4.99290 08590 -.02390 .02110 10.422 13.013 .60030 9.81020 11.92200 .01000 .00000 5.85720 -4.98880 .07970 -.01990 .01940 10.450 28.103 .60030 8.76710 11.94740 .00440 .00000 5.84830 -5.00120 .07400 -.01470 .01630 10.460 43.255 .60080 7.71670 -.00230 11.95920 .00000 5.84490 -4.99910 .08020 -.01700 .01530 10.461 46.967 .59980 11.95490 7.46120 -.00580 .00000 5.84130 -4.99850 .08190 -.01790 .01520 GRADIENT -.000009 -.06892 .00100 ~.00896 .00000 -.00057 -.00048 -.00074 .00055 -.00015 RUN NO. 0/ 0 RN/L = 3.24 GRADIENT INTERVAL = .00/ 12.00 **ALPHAO** OZ HACH DX DY BETAO PHI ALPHAR BETA CY CLN CSL, 14.683 .236 .60030 9.56110 11.80380 .02130 .00000 5.68610 -4.98800 .08540 -.02950 .02710 14.668 3.450 .59990 9.34130 11.79350 .02210 .00000 5.66520 -4.98830 .09540 -.02920 .02640 14.666 8.165 .59970 9.01260 11.80250 .01790 .00000 5.89170 -4.98550 .07770 -.02380 .02526 14.674 15.415 .69030 8.51160 11.02650 .00960 .00000 5.67290 -4.99850 .06920 -.01780 .02230 14.676 30.037 .59960 7.49850 11.85690 -.00230 .00000 5.06430 -5.01000 .05370 -.00520 .01560 14.690 45.279 .59970 6.44230 11.87390 -.00980 .00000 5.85630 -5.00360 .07050 -.01220 .01530 14.681 60.620 .60010 5.37930 11.89030 -.01810 .00000 5.84740 -4.99960 .08140 -.01770 .01510 GRADIENT -.00007 -.06922 -.00801 -.00046 .00000 -.00057 .00034 -.00102 .00075 -.00024

CA20 747/1 01 St

747/1 01 SI CARRIER DATA

## (AGNO70) 1 01 DEC 75 )

PARAMETRIC DATA

# REFERENCE DATA

SREF		5500.0000 SQ.FT.	XMRP	•	1339.9000	IN.XC						ALPHAC	*	8.000	BETAC	•	-5.000
LREF	=	327.7800 IN.	YHRP	=	.0080	IN.YC						ELV-18	*	.000	ELY-08		3.000
BREF	=	2348.0400 IN.	ZMRP	=	190.8080	IN.ZC						ELEVON	•	5.000	HACH	-	.600
SCALE	=	.0300										<b>BETAO</b>	-	.080	PHI	-	-000
												DX	=	.000	DY	•	10.000
			DOM: NO	-	70/6 0	371 -	- 7	20	COIDICHT	INTERVAL	_	407 12 0	•				

ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
10.342	-2,449	.60020	70020	11.07990	.03430	.00000	9.67310	-4.96870	.07830	02268	.01940
10.363	.633	.80030	-1.14580	11.05330	.04050	.00000	9.67390	-4.96980	.07680	~.02140	.01950
10.393	5.429	.60090	-1.77560	11.06390	.03940	.00000	9.67190	-4.97940	.07460	01930	.01940
10.426	12.730	.60070	-2,77410	11.07080	.03250	.08000	9.66910	-4.98290	.07050	01560	.01830
10.479	27.999	.60040	-4.87390	11.09480	.01510	.00000	9.66510	-4.98470	.07140	01360	.01660
10.511	42.823	.60060	-6.92000	11.11030	.00500	.00000	9,65760	-4.9820D	.07890	~.01659	.01590
10.514	46.832	.60000	-7,47470	11.11160	.00260	.00000	9,65660	-4.97380	.08050	01710	.01590
	GRADIENT	.00013	13768	.00013	00024	.00000	08044	00209	<b>~.0</b> 00048	.00046	00002
		RUN N	). 786/ O	RN/L =	3.19 GRADI	ENT INTER	RYAL = .0	00, 12.00			

ALPHAO	D2	MACH	DX	DY	BETAU	PHI	ALPHAN	BETA	CY	CLN	CSL
14.727	.234	.59910	-2.11200	10.95930	.03290	.02000	9.69510	-4.97390	.06970	02590	.02550
14.734	3.279	.60060	-2.52880	10.95100	.03569	.00000	9.69350	-4.97670	.06770	02260	.02450
14.749	7.626	.60090	-3.12530	10.95380	.03220	.00000	9.69840	-4.98000	.06450	01890	.02330
14.763	15.024	.60020	-4.13540	10.96820	.02370	.00000	9.68090	-4.97890	.05640	01170	.02090
14.794	30.355	.6008	-6.23990	10.99590	.00990	.00000	9.67220	-5.00080	.05240	00460	.01700
14.799	45.083	.59910	-8.26930	11.02160	~.00320	.00000	9,66110	-4.97740	-07150	01330	.01630
14.813	6D.285	.60050	-10.37530	11.04200	01020	.08000	9.65630	-4.97420	.07950	01670	.01590
	GRADIENT	.00023	13769	00065	00014	.08000	00092	00082	00071	.00094	00030

-----

GRADIENT

-.00008

-.13750

.08064

-.08052

.00000

-.00125

-.00243

-.00098

.00089

DATE OI DE	C 75	TABULA	TED SOURCE	DATA - CA	50						i	PAGE 127
			CVSO	747/1	O1 S1		CVI	RRIER DAT	Ä	(AGHO?		DEC 75 1
	REFEREN	ICE DATA					٠			PARAHETRIC	DATA	
SREF = 5	500.0000 SC	I.FT. XHAP	= 1339.9	000 IN.XC					ALPHAC =	8.000	BETAC =	-5.000
LREF =	327.78GD IN	I. YMRP	<b>.</b> 0	OBO IN.YC					ELV-18 =	.080	ELV-OR .	3.000
BREF = 2	348.0400 IN	i. ZHRP	<b>= 190.8</b>	888 IN.ZC					ELEVON .	5.000	HACH =	.600
SCALE *	.0300								BETAO =	.000	PHI *	.000
									- אם	10.000	DY =	10.000
		RUN NO.	740/ 0	RN/L =	3.25		NT INTERV	AL » .	00/ 12.00			
ALPHAO	DZ	MACH	DX	DY	BETA	40 (1 10 (0A	PHI	ALPHAH	BETA	CY	CLN	CSL.
10.224	-3.964	.59950	9.54340	11.98930	.020	010	.00000	9.72770	-4.98500	.07950	0217	0 .01728
10.249	-1.071	.59930	9.14780	11.96350	.03	160	.00000	9.72740	-4.99230	.08020	0222	0 .01750
10.273	3.575	.59930	8.51140	11.95450	.039	510	.80000	9.72430	<del>-4</del> .99380	.07810	0206	.01790
10.307	11.249	.59930	7.45290	11.96080	.030	820	.00880	9.72660	-5.00460	.07370	0171	0 .01740
10.375	26.103	.59980	5.39230	11.98210	.013	380	.00000	9.72030	-5.00760	.07150	0138	0 .01590
10.407	41.260	.59940	3.28540	11.99630	.80	440	.00000	9.71560	-5.00550	.07790	→.016l	05210. 0
10.427	47.378	.59990	2.42810	11.99460	.00	110	.00000	9.71360	-4.98920	.08000	0170	01540
	GRADIENT	00000	13793	.00082	00	054	.00000	.00030	00141	00057	.0004	600007
		RUN NO.	741/ 0	RN/L =	3.24	GRADIE	NT INTERV	AL = .	00/ 12.00			
ALPHAO	DZ	HACH	DX	DY	BETA	AO (	PH!	ALPHAH	BETA	CY	CLN	CSL
14.548	-1.395	.59950	8.03360	11.85890	.02	640	.00000	9.75250	-4.98160	.07370	0257	0 .02270
14.553	1.311	.80080	7.66380	11.85090	.02	930	.00000	9.75100	-4.99080	.07290	0239	0 4550. 0
14.570	6.124	.60020	7.00200	11.85400	.02	630	.00000	9.74500	-5.00250	.06820	0196	0 .02150
14.599	13.813	.59960	5.93860	11.85930	.010	810	.00000	9.74180	-5.00110	.05930	0126	0 .01970
14.637	28.816	.60080	3.86530	11.87690	.001	483	.00000	9.73430	-5.00730	.65450	0058	01540
14.658	43.625	.60060	1.88890	11.89170	00	483	.00000	9.72660	-5.00060	.07090	0131	.01580
14,669	58.608	.60090	28100	11.91350	01	270	.00000	9.72080	-5.00520	.07870	Dt65	.01540
							****					

14.829

14.822

31.538

46.682

61.560

CRADIENT

.60060

.60030

.59980

-.08087

-2.44310

-3.48380

-4.51590

-.069t1

8.92270

8.93760

8.95050

.60142

CARRIER DATA

(AGN072) ( 01 DEC 75 )

ERENCE	

	REFERE	NCE DATA							Parahetric	DATA	
LREF =	500.0000 S 327.7800 I 2348.0400 I .0300	N. YHRP	<b>.</b> 0:	000 IN.XC 00. IN.YC 00. IN.ZC				ALPHAC = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = ELV-OB = HACH = PHI = OY =	5.000 3.000 .600 .000
		RUN NO.	. 777/0	RN/L =	3.27 GRAD	IENT INTER	/AL = .	CO/ 12.00			
ALPHAO 10.561 10.547 10.536 19.536 10.541 10.582 10.545	DZ -1.260 1.334 5.878 13.042 28.032 43.597 47.071 GRADIENT	MACH .60020 .60070 .60010 .60030 .60030 .59990 .60050 00013	DX .82840 .65390 .34760 13900 -1.15930 -2.23230 -2.46160 06740	0Y 8.80620 8.81240 8.81490 8.81520 8.83030 8.83030 9.0355	BETAO .04300 .03620 .03650 .02440 .01180 .00450 .00240 00125	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.82950 5.82790 5.82070 5.81370 5.80310 5.79470 00158	BETA 5.04410 5.04880 5.02710 5.02260 5.03420 5.03470 5.03480 00478	CY 11870 11810 12350 12520 12770 12330 12240 00121	CLN .01178 .01480 .02150 .02630 .03030 .02970 .02950 .00147	CSL 00560 00710 00920 01100 01320 01420 01440 00046
ALPHAO 14.885 14.865 14.851 14.843	DZ 1.660 4.767 8.930 16.495	MACH .60010 .59920 .59950 .59930	0X 39220 60880 89480 -1.41280	DY 8.87450 8.88630 8.88570 8.90170	BETAO .03220 .02700 .02380 .01880	PHI .08000 .00000 .00000	ALPHAR 5.86770 5.86470 5.85730 5.84480	BETA 5.00070 5.01010 5.01040 4.99980	CY 11870 12110 12800 12700	CLN .00910 .01460 .02250 .02580	CSL 00180 00390 00630 00920

.00830

-.00030

-.00770

-.00113

.00000

.00000

.00000

.00000

5.82820

5.81730

5.81000

-.00145

4.97960

4.98730

4.98960

.00126

-.12850

-.12500

-.12050

-.00130

.03070

.03080

.02940

.00198

-.01210

-.01340

-.01390

TABULATED SOURCE DATA - CA20

			CY50	747/1	01 SI	•	CARRIER DATA	١.	LAGN07	31 (010	EC 75 1
	REFERE	NCE DATA							PARAMETRIC	DATA	
	5500.080 <b>0</b> S			000 IN.XC				ALPHAC =	4.000	BETAC -	5.000
LREF =	327.7809			OOD IN.YC				ELY-(B =	.800	ELV-08 =	3.000
BREF = 2	2348.0400 I	N, ZHRP	<b>=</b> 190.8	DOB IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAO =	.000	PHI =	.000
					-			ΩX ×	10.000	DY =	16.000
		RUN NO	. 743/ 0	RN/L =	3.24 GR/	OIENT INTER	. = JAVI	12.00			
ALPHAO	DZ	насн	OX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
10.456	-2.278	.60010	10.85340	7.94940	.03880	.00000	5.86640	5.03030	11110	.00990	00720
10.441	.974	.59990	10.63180	7.95910	.03240	.00000	5.86880	5.01890	11140	.01370	00960
10.437	5.832	.60000	10.31420	7.96140	.02670	.00000	5.86360	5.00500	11758	.02020	01030
18.440	12.947	.60040	9.81390	7.96130	.02090	.00800	5.85810	5.00010	12200	.02540	01170
10.454	28.272	.59990	8.75740	7.96870	.00920	.00000	5.84940	4.99630	12450	.02950	01370
10.462	43.215	.59990	7.72040	7.97210	.00210	.00000	5.84560	5.00410	12210	.02940	01460
10.464	46.952	.60080	7.46360	7.97530	00040	.00800	5.84240	5.00430	12080	.02910	01460
	GRADIENT	.00002	06818	.00049	00122	.00000	00112	00298	00131	.00140	00036
		RUN NO	. 746/ 0	RN/L =	3.23 GR/	DIENT INTER	IVAL = .0	12.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.699	.081	.60070	9.56470	8.04510	.01920	.00080	5.89040	5.01680	11200	.00740	00450
14.686	3.398	.60090	9.33840	8.04540	.01660	.00000	5.88440	5.01860	11540	.01360	00620
14.677	8.089	.59980	9.01750	8.04550	.01310	.00000	5.87840	5.01900	12300	.02160	~.00850
14.677	15.482	.60080	8.51410	8.04890	.00880	.00000	5.86910	5.00690	12600	.02620	01050
14.674	30.336	.59920	7.49140	8.06690	.00080	.00000	5.85560	5.00270	12850	.03080	01300
14.676	45.437	.59990	6.44350	8.08710	00850	.00000	5.84830	4.99500	12520	.03080	01410
14.674	60.598	.59920	5.39480	8.09960	01450	.00000	5.83970	5.00380	12180	.02960	01460
	GRADIENT	00012	09833	.00005	00076	.00000	60148	.00026	00139	.00177	00050

RUN NO. 785/ 0 RN/L = 3.20 GRADIENT INTERVAL = .00/ 12.00

ALPHAO	DZ	HACH	ĐΧ	ΒY	BETAO	PHI	ALPHAH	BETA	CY	CLN	ČSL.
14.769	.421	.60000	-2.15370	8.90200	.01960	.00000	9.69950	5.01660	12500	.01020	00390
14.763	3.277	.60030	-2.53970	8.89780	.01780	.00000	9.69440	5.00270	12760	.01670	00580
14.765	7.611	.60040	-3.12710	8.68370	.01750	.00000	9,68640	4.99678	13110	.02300	00730
14.776	14.697	.59960	-4.11930	8.86950	.01660	.00000	9.67900	5.00080	13010	.02690	00900
14.801	30.085	.60030	-6.19610	0.05980	.01090	.60000	9.66900	4.98280	12660	.02970	01000
14.812	45.241	.60060	-8.28580	8.87710	.00540	.00000	9.66320	4.99950	12080	.02850	01040
14.869	60.161	.60050	-10.35530	8.90350	00530	.00000	9.65980	4.99330	11630	.02690	01090
	GRADIENT	.00005	13540	→.00260	00027	.00000	00182	00266	00085	.00175	00046

TABULATED SOURCE DATA - CARD

PAGE 131

			CV50	747/1	01 51	c.	ARRIER DATA	<b>A</b>	CAGNO7	5) (01 DE	C 75 )
	REFERENC	E DATA						1	PARAHETRIC	DATA	
	ean e.m. ca	FT. XHRP	= 1339.90	000 IN.XC				ALPHAC =	8.000	BETAC -	5.000
	500.6000 SQ. 327.7800 IN.			180 IN.YC				ELV-18 -	.000	ELY-08 *	3.000
	327,7800 IN. 348.0400 IN.			OD IN.ZC				ELEVON =	5.00B	HACH =	.600
<b></b>	.0309 .0309	£1 # 65	- 10010					# 0AT38	.000	PHI =	.000
SCALE =	-0208							DX =	10.000	DY =	10.000
		RUN NO.	744/ 0	RN/L =	3.24 GR	ADIENT INTER	VAL = .	00/ 12.00			
		HACH	ĐX	DY	DETAG	PHI	ALPHAH	BETA	CY	CLH	CSL.
ALPHAO	DZ -4.295	.59980	9.60240	7.92050	.05400	.00000	9.71810	5.02020	11450	.00710	00548
10.291	-1.016	.60000	9.14600	7.93820	.03580	.00000	9.72130	5.02130	11650	.01390	00680
10.284	3.234	.60090	8.56250	7.93260	.03000	.00000	9.71970	5.02420	11920	.01900	00770
10.298 10.325	10.653	.60020	7.54070	7.92720	.02580	.00000	9.71900	5.01130	12240	.02450	00980
10.329	26.076	.59950	5.40030	7.92620	.01500	.00000	9.71380	5.00840	12170	.02760	01030
10.331	40.921	.68020	3.33920	7.93188	.00830	.00000	9.70970	5.00110	11820	.02710	01100
10.429	47.381	.59990	2.44250	7.93360	.00400	.00000	9.70550	5.00900	11740	.02690	01128
10,723	GRADIENT	00009	13773	00073	00057	.00000	.00804	00174	00043	.00074	00015
		RUN NO.	745/ 0	RN/L =	3.23 G	RADIENT INTER	RYAL	00/ 12.00			
	DŽ	масн	DX	DY	BETAO	PHI	ALPHASI	BETA	CY	CLR	CSL
ALPHAO	-1.882	.60010	8.09210	B.06750	.01710	.00000	9.74680	5.02630	11810	.00820	00430
14.583	1.393	.59950	7.64570	8.06130	.01580	.00000	9.74410	5.01250	12080	.01470	00520
14.579 14.585	5.736	.60840	7.05370	8.04400	.01390	.00800	9.74018	5.01420	12540	.02100	00670
14.601	12.961	.60840	6.06200	8.03060	.01140	.00800	9.73450	5.00960	12730	.02580	00830
14.629	28.063	.59950	3.97810	8.02230		.00000	9.72720	5.00640	12680	.02940	01090
14.652	42.937	.60070	1.91620	8.02770		.00000	9.71930	4.99980	12090		01220
14.658	57.817	.59950	15670	0.04120		.00000	9.71390	5.08110	11670		01280
14.020	GRADIENT	.00021	13630	00398		.00000	00092	.00039	00105	.00145	00035

ORIGINAL PAGE IS OF POOR QUALITY \_\_\_\_

(AGN076) ( 01 DEC 75 )

DATE OI DEC 75

GRADIENT

.03004

-.05875

CARRIER DATA CA20 747/1 BL SI

.00528

-.00185

	REFERE	NCE DATA							PARAMETRIC	DATA	
LREF =	5500.0000 SI 327.7800 II 2348.0400 II .0300	N. YHRP	<b>-</b> .0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = OX =	4.000 080 5.000 000 000	GETAC = ELV-OB = HACH = PHI = GY =	-5.000 3.000 .600 7.500
		'RUN NO.	780/ 0	RN/L =	3.24 GRAI	DIENT INTER	IVAL = .C	00.SI \00			
ALPHAO	DZ	HACH	DХ	DY .	BETAG		ALPHAH	BETA	CY	CLH	CST.
10.498	-1.277	.59980	.83250	1.15460	.36450	7.50000	5.83850	-5.05480	.09310	01450	.01400
10,489	2.021	.60000	.61190	1.18340	.35490	7.50000	5.83680	-5.04370	.09370	01810	.B1410
10.492	6.318	.60080	.32120	1.21560	.34580	7.50000	5.83320	-5.04788	.39670	02190	.01450
10.500	13.726	.60020	18460	1.24350	.33660	7.50000	5.82810	-3.04000	.09480	02200	.01450
10.510	28.683		-1.20160	1.27850	.32710	7.50000	5.81510	-5.04710	.09450	02250	.01470
10.516	43.777		-2.23760	1.28820	.32620	7.50800	5.80850	-5.04020	.09260	02160	.01430
10.513	47.275		-2.47710	1.29290	.32410	7.50000	5.88680	-5.04010	.09290	02180	.01420
10.5.5	GRADIENT	.00019	06765	.00749	00212	.00000	08084	00095	.00070	00088	.00009
		RUN NO.	699/ 0	RN/L =	3.25 GRA	DIENT INTER	ival(	00.51 \00			
ALPHAD	ĐZ	ИАСН	ОХ	BY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
14.757	1.988	.59900	3B000	1.14030	.90370	7.50000	5.86610	-5.05330	.03100	01650	.01390
14.746	4.533	.59970	55960	1.15770	.89700	7.50000	5.86300	-5.04270	.09370	01950	.01420
19.791	9.089	.59940	87360	1.17880	.89010	7.50000	5.85990	-5.04130	.09410	02090	.01420
14.736	16.707	.59980	-1.39380	1.20160	.89280	7.50000	5.64940	-5.04330	.08890	01850	.01400
14.734	31.718	.68020	-2.41740	1.22950	.87480	7.50000	5.93020	-5.04070	.09220	02110	.01430
19.738	46.E44	.59920	-3.44230	1.23390	.87190	7.50000	5.81970	-5.04800	.09270	02170	.01430
14.739	61.610	.69030	-4.47430	1.24610	.86560	7.50000	5.81480	-5.03960	.09360	02230	.01420
					22455	00000	00000	00153	20072	00057	DARRI

.00000

-.00094

.00152

.00039

~.80057

.00004

#### TABULATED SOURCE DATA - CA20

CARRIER DATA (AGNO77) ( 81 DEC 75 ) CVSO 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 1339.9000 IN.XC ALPHAC = 4.000 BETAC # -5.000 5500.0000 SQ.FT. XHOP = SREF = ELV-08 = 3.000 327.7800 IN. YMRP .0000 IN.YC ELY-IB = .000 ELEVON = 5.000 HACH .600 BREF = 234B.0400 IN. ZHRP \* 190,8000 IN.2C BETAO = .000 PHI 7.500 SCALE = .0300 10.000 ĐΥ .000 DX GRADIENT INTERVAL . .00/ 12.00 RUN NO. 679/ 0 RN/L = 3.29 CY CLH CSL. **ALPHAO** DZ MACH DΧ DY BETAO PHI ALPHAH BETA 5.85010 -5.00500 -.01250 .01350 .34580 7.50000 .09420 -2.105 .60920 10.03710 2.01610 10.372 7.50000 5.84920 -4.98530 .09440 -.01710 .01420 10.65570 2.02110 .34160 10.367 1.080 .59990 -.02150 .01460 2.05170 .33240 7.50000 5.64990 -4.98100 .09790 .60070 10.34240 10.367 5.691 5.84450 -4.98760 .09750 -.02270 .01470 2.08120 .32670 7.50000 13.253 .60030 9.02060 10.389 5.83790 -4.98730 .09540 -.02290.01490 .60010 8.78850 2.11400 .31800 7.50000 10.411 28.268 .31760 7.50000 5.82940 -4.98850 .09310 -.02150 .01420 2.12730 43.330 .59990 7,75290 10.422 7.50000 5.82760 -4.98840 .09290 -.02170 .01448 7.39550 2.13120 .31640 10.423 48.502 .59940 .00015 .00093 .00076 -.00095 .00809 GRADIENT .00017 -.06766 .00661 -.00199 .00000 GRADIENT INTERVAL = .00/ 12.00 RUN NO. 580/ 0 RN/L = 3.28 CSL. DY BETAO PHI ALPHAH BETA ÇY CLN DZ MACH DX ALPHAO 5.87640 -4.96580 .08900 -.01340 .01400 1.96400 .89390 7.50000 14.684 .874 .60040 9.54560 -.01800 .01450 9.31860 1.98550 .88600 7.50000 5.87720 -4.96930 .09240 14.667 4.232 .60010 -.02060 .01450 5.87440 -4.98210 .09410 .60050 9.03360 2.01180 .66290 7.50000 14.662 8.405 -.01920 .01430 2.03990 .87710 7.50000 5.86600 -4.99860 .09030 14.663 16.057 .60090 0.51880 7.48720 2.05970 .87070 7.50000 5.85230 -4.98160 .09160 -.02080 .01450 30.959 .59980 14.669 .86860 7.50000 5.84070 -4.98100 .09240 -.02140 .01440 2.06910 14.672 45.936 .59930 6.45680 7.50000 5.83590 -4.98920 .09360 -.02200 .01430 14.693 61.178 .59918 5.39730 2.08669 .86400 -.00094 .00006 .00000 -.60628 -.00220 .00067 GRADIENT .00002 -.06900 .00635 -.00145

CA20 747/1 OI SI CARRIER DATA (AONO78) 1 01 DEC 75 1 REFERENCE DATA PARAHETRIC DATA SREF = 5500.0000 SQ.FT. XHRP = 1339,9000 IN.XC ALPHAC = 8.000 BETAC = -5.000 LREF \* 327.7800 IN. .0080 IN.YC YHRP ELV-18 = .000 ELV-08 = 3.000 eref = 2348.0400 IN. ZMRP = 190.8000 IN.ZC ELEVON = 5.000 HACH .600 SCALE -.0300 BETAO = .000 PHI 7.500 ĐΧ .080 DY .000 RUN NO. 701/ 0 RN/L = 3.22 GRADIENT INTERVAL . .00/ 12.00 ALPHA0 DZ MACH ĐΧ DY **BETAO** PHI ALPHAH BETA CY CLN CSL. 10.301 -1.522 .59970 -.03310 1.09330 .39300 7.50800 9.69190 -5.04578 .09360 +.01360 -01360 10.323 1.720 .59990 -1.27100 1.13320 .37340 7.50000 9.69140 -5.04160 .09420 -.01BI0 .01380 10.358 6.033 .60060 -1.8618D 1.18510 .35648 7.50000 9.69140 -5.04760 .09350 -.01980 .01390 10.398 .59980 15.288 -3.12410 1.24460 .33730 7.50000 9.68470 -5.03900 .09120 -.02070 .01440 10.452 28.550 .60080 -4.9535B 1.29230 .32740 7.50000 9.68130 -5.04800 .08770 -.01910 .01450 10.465 43.635 .59990 -7.04370 1.31350 .32720 7.50000 9.67630 -5.04730 .08850 -.01980 .01470 10.490 47.136 .60050 -7.52840 1.31640 .32660 7.50000 9.67520 -5.03940 .08870 -.02000 .01470 GRADIENT .00016 -.13697 .01203 -.00394 .00000 .00000 -.00139 -.00014 -.00039 .00002

RUN NO. 698/ 0 RN/L = 3.31 GRADIENT INTERVAL -.00/ 12.00 ALPHAD DZ MACH DX DY **BETAO** PH! ALPHAH BETA CY CLN CSL 14.639 1.551 .60080 -2.26150 1.07140 .92630 7.50000 9.67920 -5.05090 .09360 -.01700 .01490 14.646 4.440 .59940 -2.65160 1.10830 .91390 7.50000 9.67710 -5.04860 .09410 -.01940 .01979 14.662 9,007 .60060 -3.26780 1.14300 .90190 7.50000 9.67380 -5.02670 .08890 -.01780 .01468 14.679 16.752 .60000 -4.31660 1.19170 .88790 7.50000 9.68390 -5.05080 .08530 -.01670 .01450 14.701 31.550 .60040 -6.33690 1.23600 .87700 7.50000 9.64870 -5.03090 .09180 -.02130 .01560 14.713 46.456 .60000 -0.39500 1.26140 .87320 7.50000 9.64450 -5.04770 .08850 -.01960 .01530 14.722 61.470 .60040 -10.46660 1.28150 .86640 7.50000 9.63820 -5.04710 .8B940 -.02020 .01540 GRADIENT -.00080 -.13496 .00949 -.00321 -.80000 -.00072 .00339 -.00068 -.00007 -.00004

TABULATED SOURCE DATA - CA20

•			CV50	747/1	01 51	(	CARRIER DATA	A	(AGNO7	(9) ( 0) D	C 75 )
	REFERENCE	DATA							PARAHETRIC	DATA	
SREF *	5500.0000 SQ.F	T. XHRP	= 1339.9	000 IN.XC				ALPHAC =	8.000	BETAC .	<del>-5</del> .000
LREF =	327.7880 IN.	YHRP	0	OOD IN.YC				ELV-IB =	.000	ELV-08 =	3.000
BREF =	2340.0400 IN.	ZHRP	<b>= 190.8</b>	080 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAO =	.000	?HI €	7.500
								DX =	10.000	DY »	.000
		RUN NO.	685/ 0	RN/L =	3.27 GR/	OIENT INTER	RVAL = .	00/ 12.00			
ALPHAO	OZ	насн	DX	DY	DETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.182	-3.146	.59980	9.44330	1.93780	. 37820	7.50000	9.72010	-4.99620	.09550	01120	.01290
10.201	191	.60050	9.04330	1.97280	.36380	7.50000	9.72230	-4.99230	.09350	01540	.01360
10.223	4.382	.60020	8.42140	2.02160	.34460	7.50000	9.72000	-4.98760	.09580	02040	.01380
10.263	11.935	.60030	7.38160	2.06800	.32870	7.50000	9.71950	-4.97890	.09420	02130	.01410
10.337	26.849	.59930	5.31290	2.12680	.31790	7.50800	9.71460	-4.99590	.08970	01960	.01440
10.377	42.008	.60020	3.20820	2.14560	.31730	7.50000	9.70990	-4.96020	.09850	01970	.01460
10.386	48.909	.60000	2.23740	2.15750	.31550	7.50000	9.71490	-4.98770	.08910	01990	.01470
	GRAD1ENT	.00001	13767	.00614	00211	.00000	00007	.00115	00021	00012	.00004
•		RUN NO.	6917 0	RN/L =	3.27 GR/	DIENT INTER	RVAL = .	00/ 12.00			
ALPHAO	DZ	HACH	DX	DY	BETAD	PHI	ALPHAH	BETA	CY	CLN	CST
14.540	893	.60080	7.97090	1.87070	.91980	7.50000	9.74650	-4.97150	.09250	01330	.01310
14.539	1.681	.60070	7.62670	1.90420	.90820	7.50000	9.74960	-4.96080	.69250	01640	.01310
14.550	6.191	.59980	7.01630	1.94450	.89580	7.50000	9.74300	-4.94870	.09520	02110	.01320
14.577	13.568	.60030	5.99450	2.00570	.88320	7.50000	9.73710	-4.98970	.08900	01830	.01330
14.626	28.859	.60080	3.90510	2.06670	.86940	7.50000	9.72540	-4.99530	.08990	+.02040	.01400
14.654	43.807	.60030	1.83050	2.08630	.86880	7.50000	9.72090	-4.98830	.08800	-,01950	01430
14.668	58.633	.59980	23580	2.09830	.86650	7.50000	9.71490	-4.98000	.08890	02000	.01450
		00020	13535	.00894	00275	00000	00146	.00268	.00060	00104	.00002
					, · <del>-</del>						

## CARRIER DATA

(AGNOBO) ( 01 DEC 75 )

	NCE	

GRADIENT

.00009

-.06944

## PARAMETRIC DATA

	MET ENGIN	L DVIV							176034211114	LANIE.	
LREF =	5500.0000 SQ. 327.7800 IN. 9348.0400 IN. .0300	YMRP		9000 IN.XC 0000 IN.YC 8000 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = OX =	4.089 .089 5.889 .080	BETAC = ELV-08 = HACH = PHI = DY =	-5.000 3.000 .600 7.500 10.000
		RUN NO.	791/ 0	RN/L =	3.34	GRADIENT INTER	RVAL = .	00.51 100.			
ALPHAD	DZ	насн	οx	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CST.
10.543	.273	.59960	.69350	11.14360	.36728	7.50000	5.84270	-4.98590	.07790	02120	.02020
10.537	3.154	.59930	.49B10	11.15020	.36561	7.50000	5.84120	-4.97990	.07780	02050	.02020
10.543	7.602	.60010	.19640	11.16160	.36070	7.50000	5.83540	-4.97360	.07530	01880	.01940
10.546	14.948	.59920	30590	11.18100	.35241	7.50000	5,83280	-4.98370	.07340	01620	.01780
10.563	30.456	.60020	-1.36340	11.21710	. 33670	7.50000	5.82120	-4.98510	.07508	01470	.01530
10.569	45.266	.59930	-2.38270	11.23800	.33050	7.50008	5.81720	-4.98950	.08320	01840	.01490
10.573	47.765	.60090	-2.55600	11.24380	.32080	7.50000	5.81590	<del>-4</del> .99680	.08420	01680	.01480
	GRADIENT	.0000B	05782	.00247	00091	.00000	00102	.00178	00036	.00033	00012
		RUN NO.	792/ 0	RN/L =	3.33 (	RADIENT INTER	IVAL	00/ 12.00			
ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLH	CSF
14.693	2.086	.60000	37990	11.08210	.90280	7.50000	5.87000	-4.98910	.06160	~.01880	.02400
14.684	4.700	.60010	56200	11.09160	.90090	7.50800	5.87020	-4.98190	.06220	01820	.02400
14.679	8.005	.60860	06020	11.10680	.89490	7.58888	5.86130	-4.96840	.06140	01610	.02280
14.663	16.383	.60870	-1.37540	11.13310	.88490	7.50888	5.85650	-4.99530	.05840	01190	.02030
14.691	31.443	.59920	-2.41210	11.16780	.87000	7.50000	5.83990	-4.99270	.05650	00640	.01540
14.694	48.552	.59940	-3.45170	11.18970	.86380	7.58688	5.82940	-4.99250	.07610	01510	.01510
14.693	61.369	.59950	-4.47680	11.20770	.65570	7.50000	5.82430	-4.98120	.08490	01900	.01500

.00357

-.00117

-.03880

-.00134

.00301

-.00004

.00040

TABULATED SOURCE DATA - CA20

			CYSO	747/1	01 SI	C	ARRIER DATA		(ACHOB	1) (01.06	EC 75 1
	REFEREN	CE DATA							PARAMETRIC	DATA	
SREF = 5	5500. <b>0030 S</b> Q	.FT. XHRP	- 1339.9	000 IN.XC				ALPHAC =	4.000	BETAC -	-5.000
LREF =	327.7800 41	YHRP	0	000 IN.YC				ELV-IB =	.000	ELV-08 =	3.000
BREF = 2	2348.0400 IN	. ZMRP	= 190.8	000 IN.ZC				ELEVON =	5.000	HACH #	.600
SCALE =	.0300							BETAO =	.000	PHI =	7.500
								DX =	10.000	DY =	10.000
		RUN NO.	752/ 0	RN/L =	3.25 G	RADIENT INTER	RVAL = .0	00.51 \00			
ALPHAO	DZ	насн	DX	DY	BETAO	PH1	ALPHAH	BETA	CY	CLN	CST
10.346	-1.602	.60090	10.84680	11.99480	.37630	7.50000	5.85440	-4.97960	.08210	02220	.01930
10.345	1.482	.60060	10.63530	12.00080	.37550	7.50000	5.85620	-4.98010	.08140	02170	.01940
10.354	5.908	.60020	10.33290	12.01730	.37080	7.50000	5.65220	-4.98920	.08910	02020	.01900
10.381	13.318	.60050	9.81780	12.03110	.36550	7.50000	5.84870	-4.9B360	.07740	01790	.01778
16.403	28.645	.60020	8.76420	12.06720	.35160	7.50000	5.84180	-4.99350	.07650	01550	.01540
10.412	43.525	.59940	7.73690	12.08630	.34460	7.50000	5.83600	-4.99070	.08400	01870	.01500
10.415	47.221	.60020	7.48460	12.08790	.34248	7.58000	5.83250	-4.98240	.0854 <b>0</b>	01930	.01490
	GRADIENT	00009	06936	.00373	00106	00000	00090	00205	00029	.00034	00009
		RUN NO.	755/ 0	RN/L =	3.25 G	RADIENT INTER	RVAL = .0	00/ 12.00			
ALPHA0	OZ	HACH	ĐΧ	DY	DETAD	PHI	ALPHAN	BETA	CY	CLN	CSL.
14.608	240	.60090	9.64110	11.90700	.92390	7.50000	5.87640	-4.97970	.07350	02230	.02200
14.598	2.722	.60030	9.43840	11.92140	.92500	7.50000	5.87630	-4.98890	.07109	02080	.02260
14.593	7.480	.60030	9.11160	11.93390	.92030	7.50000	5.87390	-4.98370	.06780	01800	.02220
14.599	14.602	.60090	8.62320	11.95990	.91230	7.50000	5.86660	-4.99540	.06300	01350	.02020
14.613	29.687	.60000	7.57480	12.00060	.89630	7.50000	5.85700	-5.00190	.05760	00540	.01530
14.617	44.725	.59950	8.53810	12.02150	.88940	7.50000	5.84550	-4.99410	.07670	01500	.01500
14.621	59.760	.60020	5.50180	12.03780	.89140	7.50000	5.B3640	-4.99030	.08530	01910	.01490
	GRADIENT	.00000	06868	.00263	00099	.00000	00050	.00109	00067	.00059	00008

CA20 747/1 01 51

## CARRIER DATA

(ACNOSE) ( 01 DEC 75 )

		ICF.	

GRADIENT

.00019

-.13623

	refere	NCE DATA							PARAMETRIC	BATA	
SREF = LREF = BREF = SCALE =	5500.0000 S 327.7800 I 2340.0400 I	N. YHR	P .	9000 IN.XC 0000 IN.YC 8000 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAD =	8.000 .000 5.000 .000	BETAC = ELV-08 = HACH = PHI =	-5.000 3.000 .600 7.500
								DX =	.000	DY =	10.000
		RUN N	0. 798/ 0	RN/L =	3.28 G	RADIENT INTE	RVAL	60/ 12.60			
ALPHAC	) DZ	HACH	ОX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CST
10.341	270	.60070	-1.00870	11.14970	.35700	7.50080	9.65950	-4.98570	.07560	- 02000	,01800
10.486	.652	.59920	-1.21140	11.14280	.37710	7.50000	9.65970	-4.98610	.07500	01980	.01800
10.365	3.053	.59990	-1.45750	11.15070	.36160	7.50000	9.65670	-4.97910	.07470	01890	.01819
10.389	7.539	.59980	-2.06810	11.16310	.36060	7.50800	9.65760	-4.98830	.07350	01740	.01780
10.427	14,849	68020	-3.06390	11.18630	.35350	7.50000	9.65440	-4.99010	.07250	01540	.01730
10.498	30.104	.59970	-5.16390	11.23050	.34070	7.50000	9.64830	-4.98980	.07700	01570	.01630
10.519	44.754	.60050	-7.17850	11.25610	.33340	7.50000	9.64570	-4. <del>98</del> 770	.08280	01800	.01610
10.519	47.323	.60030	-7.52920	11.25990	.33110	7.50000	9.64270	-4.99730	.09390	01840	.01600
	GRADIENT	00005	12590	.00292	00212	.00000	00824	00054	00022	.00035	00003
		RUN N	0. 797/ 0	RN/L =	3.29 6	RADIENT INTE	RVAL = .	00/ 12.00			
ALPHAC	) DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CST.
14.589	1.523	.59940	-2.24660	11.09770	.90490	7.50000	9.69240	-4.98790	.05970	01810	.02280
14.598	4.729	.60090	-2.68170	11.10310	.90410	7.50000	9.68750	-4.98930	.05930	01640	.02210
14.60B	8.739	.60090	-3.22950	11.10210	.90100	7.50000	9.68610	-4.97690	.05660	01310	.02100
14.637	16.314	.59980	-4.26990	11.12770	.69130	7.50000	9.67900	-4.99560	.05560	08960	.01890
14.668	31.043	.59930	-6.28480	11.17200	.87570	7.50000	9.66570	-4.99090	.65890	00630	.01610
14.687	46.253	.60030	-8.38190	11.20280	.86730	7.50000	9.65840	-4.98970	.07830	01600	.01630
14.695	61.364	.60050	-10.46720	11.22980	, 85990	7.50000	9,64990	-4.98740	.08400	01840	.01610
							00000	20150	00014	00000	00000

-.00055

.00057

-.00000

-.00085

.00159

-.00044

.00970

#### TABULATED SOURCE DATA - CA20

PAGE 139 CARRIER DATA (AGNOB3) ( 01 DEC 75 ) CA20 747/1 01 SI PARAMETRIC DATA REFERENCE DATA ALPHAC \* 8.000 BETAC --5.000 - 5500.0000 SQ.FT. XMRP w 1339.9000 IN.XC ELV-IB . .008 ELY-08 = 3.000 YHRP = .0000 IN.YC 327.7800 IN. ELEVON = HACH .600 190.8000 IN.ZC 5.600 ZHRP + BREF = 2348.0400 IN. 7.500 BETAC = .000 PHI SCALE = ,0380 ĐΧ 10.000 DY 10.000 RUN NO. 753/ 0 RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00 CSL **ALPHAH** BETA CY CLN ΩY BETAO PHI **ALPHAO** DΖ HACH DΧ 9.72220 .07680 -.02010 .01580 .59920 9.58440 12.02470 .35460 7.50000 -4.97930 -4.655 10.157 12.61420 9,72250 -4.99720 .07680 -.02000 .01620 9.17960 .36780 7.50000 .59910 10.103 -1.077 -.01910 .01640 .37270 7.50000 9.72190 -4.98840 .07680 8.55730 12.01330 10.217 3.434 .59910 9.72090 -4.99020 .07460 -.01670 .01600 .59950 7.53340 15.03380 .36920 7.50000 10.253 10.894 -.01550 .01520 7.50000 9.71850 -4.99130 .07620 5.40658 12.07790 .35530 26.227 .60000 10.325 -.01770 .01510 .34890 7.50000 9.71160 -4.99700 .08190 10.368 40.888 .59900 3,36780 12.10570 7.50000 9.71230 -4.98090 .08400 -.01848 .01470 47.654 .59990 2.42188 12.11250 .34450 10.380 .00032 -.00005 -.13725 .00275 -.00047 .00000 -.00013 -.00131 -.00027 .00005 GRADIENT GRADIENT INTERVAL = .00/ 12.00 RUN NO. 754/ 0 RN/L = 3.25 CSL CLN HACH DX DY BETAO PHI ALPHAW BETA CY **ALPHAO** ĐΖ 8.03390 11.93300 .92370 7.50000 9.74720 -4.98020 .06490 -.01950 .02030 14.464 -1.083 .59930 9.74680 -4.99710 .06390 -.01790 .01990 7.50000 1.853 .59970 7.63200 11.94050 .92590 14.477 -.01440 .01930 9.74430 .06080 .59980 7.04460 11.94340 .92410 7.50000 -4.98480 6.138 14.493 -.00930 .01750 11.96290 .91650 7.50000 9.73740 -4.98940 .05580 6.00510 14.525 13.721 .60080 -.00610 7.50000 9.72870 -4.99460 .05760 .01510 14.575 28.934 .60020 3.90070 12.00290 .89970 .07670 -.01540 .01540 1.60220 12.03180 .89130 7.50000 9.72270 -4.99150 .59940 14.596 44.022 -.01800 .01510 .88300 7.50000 9.71910 -4.996B0 .09300 -.22260 15.05010 14.608 58.528 .60060 -.00058 .00287 -.00072 .00082 -.00014 -.00042 .00000 **GRADIENT** .00002 -.13708 .00069

-.00004

RUN NO. 704/ 0 RN/L = 3.19 GRADIENT INTERVAL = .00/ 12.00 **ALPHAO** DZ MACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL 15.435 6.448 .59970 -.69570 .16150 .97500 7.50000 5.86270 -.08920 ~.02680 .01040 -.00300 15.428 9.304 .59980 -.89700 .16320 .97380 7.50000 5.85980 -.01440 -.02190 .00786 -.00318 15.423 12.675 .59960 -1.14210 . 16420 .97360 7.50000 5.85340 -.01150 -.01620 .00470 -.00270 15.412 20.640 .59920 -1.67000 .17050 .96990 7.50000 5.83730 -.00340 -.01440 .00450 -.00230 15.415 36.108 .60000 -2.72220 .18760 .96590 7.50800 5.81930 -.00920 ~.00970 .00250 -.00150 15.514 50.653 .59970 -3.71920 .19180 .96360 7.50000 5.80820 ~.00090 -.00850 .00200 -.00110 14.600 60.670 .60080 -4.54030 .20570 .84990 7.50800 5.91280 .00730 -.00830 .00150 -.00090 15.413 65.386 -4.73040 .20630 .59960 .95590 7.50800 5.80070 -.00040 -.00780 .00140 -.00080 GRADIENT .00084 -.07049 .60869 -,08077 .00000 -.00102 -.00182 .00172 -.00091

#### TABULATED SOURCE DATA - CA20

CA20 747/1 01 S1 CARRIER DATA (AGN085) 4 01 DEC 75 3 REFERENCE DATA PARAHETRIC DATA 5500.0000 SQ.FT. XMRP 1339.9000 IN.XC ALPHAC = BETAC = 4.000 .000 LREF 327,7800 IN. YHRP .0000 IN.YC ELV-IB -.000 ELY-08 = 3.000 BREF = 2348.0400 IN. ZMRP 190.8000 IN.ZC ELEYON = 5,000 HACH .600 SCALE = .0300 BETAD = .000 PHI 7.500 DX 10.000 DY .000 RUN NO. 686/ 0 RN/L = 3,25 GRADIENT INTERVAL = .00/ 12.00 ALPHAO HACH DY BETAO OZ DΧ PHI ALPHAH BETA CY . CLN CST 10.398 -1.550 .59990 10.83680 .08910 .32620 7.50000 5.86960 .60820 -.02190 .00810 -.00226 10.383 1.373 .59990 10.63990 .09078 .32610 7.50000 5.86880 .00850 -.02100 .00780 -.00230 .09770 .32520 10.381 5.899 .59950 10.33220 7.50000 5.86370 .01110 -.01590 .00510 -.00180 7.50000 10.388 13.274 .59930 9.82720 .10370 .32480 5.85710 .01310 -.01170 .00300 -.00150 10.407 28.273 .59950 8.79640 .11890 .31960 7.50000 5.84670 .02070 -.01110 .00310 -.00140 .60000 7.73890 .13010 .31980 7.50000 10.420 43.578 5.83970 .01420 -.00970 .00190 -.00090 10.422 48.458 .59940 7,40080 .13490 .31810 7.50000 5.83800 .01410 -.00900 .00196 -.00090 GRADIENT -.00009 -.06799 .00155 -.00028 -.00000 -.00113 .00057 .00113 -.00050 11000. RUN NO. 685/ 0 RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00 **ALPHAO** ÐΖ HACH DΧ DΥ BETAD PHI ALPHAH BETA CY CLN CSL. 14.697 1.100 .59940 9.54250 .13260 .07920 7.50000 5.89750 -.00300 -.02660 .01130 -.00310 . 13590 4.360 9.32210 .87860 7.50000 5.89530 14.684 .60080 -.00170 -.02470 .01000 -.00320 14.678 8.649 .60060 9.02690 .13720 .87880 7.50000 5.88960 .01038 -.01680 .00560 -.00250 14.673 16.181 .59930 6.51080 .15310 .87710 7.50000 5.87810 .08470 -.01280 .00350 -.00210 5.86330 .60050 7.48510 .17240 .87330 7.50000 .00570 14.676 31.096 -.00970 .00260 -.00150 14.684 46.169 .60080 6.44000 .16710 .87350 7.50000 5.852JD .01390 -.00900 .00210 -.00120 14,686 61.197 .59990 5.39690 .18170 .86570 7.50000 5.64350 .01430 .00160 -.00840 -.00090 GRADIENT .00015 -.05805 .00059 -.00005 -.00000 -.00106 .00181 .00133 -.00077 .00008

65.244

GRADIENT

.60010 -11.07430

-.13645

.00013

CA20 747/1 01 SI

.19330

.00157

CARRIER DATA

(AGNOBE) ( 01 DEC 75 1

## REFERENCE DATA

SREF	=	5500.0000	SQ.FT.	XHPP	=	1339.9000	IN.XC
LREF	•	327.7880	IN.	YMRP	*	.0000	IN.YC
BREF	=	2348.0400	IN.	ZHRP	*	190.8800	IN.ZC
COME	_	0700					

# PARAMETRIC DATA

	5500.0000 S		광 = 1339.9	1000 IN.XC				ALPHAC =	8.000	BETAC .	.000
lref =	327.7800 I	N. YM	). = 95	1888 IN.YC				ELV-18 .	.000	ELV-08 =	3.000
BREF = 8	2348.0400	N. ZMF	간 × 190.6	000 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAO =	.000	PHI =	7.500
								DX -	.000	DY =	-000
		F1									
		RUN N	10. 702/ G	RN/L ≃.	3.21 GR	ADIENT INTER	RYAL = .0	10/ 12.00			
ALPHAO	02	HACH	DX	DY .	BETAO	PHI	ALPHAH	BETA	CY	CLH	car
10.331	-1.338	.59930	84120	.05700	.33000	7.50000	9.69480	00030	~.01730	.00390	00136
10.340	1.740	.60000	-1.25560	.07150	.33130	7.50000	9.69390	00040	01620	.00390	00129
10.363	6.289	.60070	-1.87580	.08170	.33200	7.50000	9.68910	08010	01450	.00360	00110
10.396	13.806	.60030	-2.90490	.09630	.33230	7.50800	9.68730	.00010	01330	.00340	00110
10.462	28.633	.60060	-4.95180	.12610	.32950	7.50000	9.68090	.00960	01108	.00270	00100
10.485	43.486	.60040	-7.00390	.14140	.33000	7.50000	9.67620	.80150	01010	.00210	00070
10.489	47.096	.59950	-7.50170	. 14340	.32810	7.50000	9.67300	.00920	01030	.00220	00050
	GRADIENT	.00015	13634	.00224	.00033	.00000	00106	.00807	.00037	00007	200002
•		RUN N	0. 703/ 0	RN/L =	3.20 GR/	DIENT INTER	IVAL = .0	0/ 12.00			
ALPHAO	DZ	HACH	OX	DY	OATSB	PHI	ALPHAH	BETA	CY	CLN	CSL
14.513	1.005	.60000	-2.17580	.11060	.86690	7.50000	9.72400	01250	02380	.00810	00250
14.522	4.803	.59980	-2.58520	.11270	.86730	7.50000	9.71900	00330	02020	.00650	00218
14.535	0.390	.60090	-3.18350	. 12190	.86560	7.50000	9.71600	00140	01620	.00460	00190
14.550	15.842	.59970	-4.20120	.13390	.86250	7.50000	9.70760	00040	01310	.00360	00178
15.384	35.410	.59990	-6.93850	. 15790	.95430	7.50000	9.69510	.00020	01140	.00310	00150
15.397	50.740	.60030	-9.05870	.17100	.96420	7.50000	9.68570	-00146	00920	.00190	00100
15 700	EE SAM	60010	-11 07470	10770	05070	7 50000					

.95630

-.00019

7.50000

-.00000

9.68350

-.00107

.00140

.00142

-.00950

.00102

.00200

-.00047

-.00080

.00000



PAGE 143 TABULATED SOURCE DATA - CARD DATE OF DEC 75 LAGNOB71 1 01 DEC 75 1 CARRIER DATA 01 SI CA20 747/1 PARAMETRIC DATA REFERENCE DATA .000 6.000 BETAC = ALPHAC = 1339.9000 IN.XC XHRP SREF = 5500.0000 50.FT. .000 ELY-OB = 3.000 ELV-18 = YHRP .0000 IN.YC = 327.7600 IN. LREF .600 ELEVON -5.000 HACH ZHRP 190.8000 IN.ZC BREF = 2348.0400 IN. PHI 7.500 BETAD = .000 SCALE = .0300 10.000 DY .000 ĐΧ 3.27 GRADIENT INTERVAL # .00/ 12.00 RUN NO. 683/ 0 RN/L = CLH CSL CY **ALPHAH** BETA DY BETAO PHI ĐΧ ALPHA0 DΖ HACH .00360 -.00030 9.72550 .08720 -.01680 .30970 7,50000 .05380 9.42630 10.202 -2.846 .60070 -.00030 -.01530 .00360 .01490 7.50000 9.72650 .68020 B.96280 .05120 .31500 .552 10.212 -.00050 -.01390 .00340 7.50000 9.72560 .01510 .05670 .31740 8.36890 .60020 10.232 4.877 -.00050 .00750 -.01260 .00310 7.50000 9.72090 .07370 .31830 .59990 7.32440 12.472 10.267 .00290 -.00050 .02330 -.01150 .31840 7.50000 9.71640 5.22440 .09540 .59930 10.343 27,592 .00010 .01650 -.00950 .00210 7.50000 9.71420 .31820 3.14850 .11600 10.377 42.540 -60030 .00060 .01650 -.01010 .00210 7.50000 9.71250 2.25810 .12250 .31670 48.934 .60050 10.367 .00032 -.00005 -.00005 .00055 .00000 -.00021 .08005 .00127 -.13731 GRADIENT .00000 3.26 GRADIENT INTERVAL = .00/ 12.00 RN/L = RUN NO. 684/ 0 CSL BETA ÇY CLN ALPHAH BETAO PHI HACH DX DY **ALPHAO** DZ .00750 -.00150 .00290 +,02270 .87510 7.50000 9.75080 .07550 .59970 8.03B10 -1.221 14.557 -.02080 .00700 -.00190 7.50000 9.75280 .00360 7.63010 .08390 .87590 1.801 .59960 14.553 -.01740 .00540 -.00150 .01280 .09780 .87610 7.50000 9.74630 7.00370 .59920 6.393 14.564 -.00170 -.01390 .00400 7.50000 9.74190 .01410 .87480 5.93410 .10350 13.985 .59980 14.590 -.00170 9.73190 .01500 -.01140 .00320 7.50000 3.93720 .13370 .07070 .60040 14.632 28.717 -.08910 .00200 -.00130 9.72470 .01620 .14770 .87100 7.50000 1.84850 43.772 .59920 14.655 -.08930 .00190 -.00100 .02410 .85940 7.50000 9.72120 .14870 48.457 .59900 1.19860 14.654 .00190 -.00110 -.00920 7.50000 9.72150 .01640 .15680 .06900 .59990 .56350 53.011 14.666 -.00035 .00007 .00200 .00074

.00007

.00085

-.00009

GRADIENT

-.13640

.00000

										• •	
			CAS	20 747/1	01 51		CARRIER DA	TA	(AGNO)	38) 4 01 0	EC 75 1
	refere	NCE DATA							PARAHETRIC	DATA	
LREF =	5500.0000 S 327.7800 I 2348.0400 I .0300	N. YHR	P	9000 IN.XC 0000 IN.XC 8000 IN.ZC				ALPHAC = ELY-18 = ELEVON = BETAD = DX =	4.000 .000 5.000 .000	BETAC = ELV-08 = HACH = PHI = DY =	.000 3.000 .500 7.500
		RUN N	). 790/ D	RN/L =	3.35	GRADIENT INTER	RVAL = .	GO/ 12.00			
ALPHAO 10.555 10.549 10.551 10.556 10.567 10.572 16.573	DZ .254 3.398 7.733 15.401 30.165 45.459 47.767 GRADIENT	MACH .60080 .59950 .60010 .60060 .60090 .59920 .59990 00008	DX .71130 .49520 .20180 31960 -1.32690 -2.38060 -2.54180 06810	DY 10.12070 10.11910 10.11940 10.12750 10.14530 10.15660 10.1614000016	BETAO .35266 .35396 .35026 .33966 .33400 .33220 .00009	7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAM 5.84990 5.84950 5.84070 5.83350 5.82300 5.81600 5.81730 00128	BETA .08050 00680 .00080 00960 .00410 .00450 00320 .00014	CY 02740 02260 01940 02020 01910 01570 01570 .00105	CLN .00070 .00010 .00010 .00010 .00000 .00450 00005	CSL .00590 .00510 .00420 .00260 .00120 .00030 .00030
ALPHA0 14.705 14.705 14.694 14.687 14.692 14.697 14.696	02 1.985 4.790 8.916 16.371 31.267 46.547 61.277 GRADIENT	MACH .60000 .59970 .59960 .59920 .60010 .59960 .59940	DX349905498083550 -1.34730 -2.36750 -3.41780 -4.4280007080	DY 10.14030 10.14100 10.14240 10.15560 10.19500 10.19690 10.21090 .80031	867A0 .88850 .88850 .88720 .87110 .86680 .85990	7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAN 5.86510 5.96030 5.95670 5.84520 5.82820 5.81760 5.80770 00119	BETA ~.00700 ~.00760 ~.00950 ~.00660 ~.01420 ~.01260 ~.00330 ~.00037	CY 03970 03480 03270 03450 02740 02100 01620 .00097	CLN .00030 .00090 .00280 .00880 .00630 .00468	CS. .01000 .00040 .00560 .00380 .00140 .00070 .00030

ORIGINAL PAGE IS OF POOR QUALITY

D:::E 4: D-											
			CAE	747/1	01 51	(	CARRIER DAT	A	EAGNOB	93 (03.0	EC 75 1
	REFERENC	E DATA							PARAMETRIC	DATA	
SREF = 5	500.0000 <b>5</b> Q.	FT. XHRP	= 1339.9	9000 IN.XC				ALPHAC =	4.000	BETAC .	.000
LREF =	327.7800 IN.	YHRP		0000 IN.YC				ELV-18 =	.000	ELV-08 =	3.000
	348.0400 IN.			0000 IN.ZC				ELEYON =	5.000	HACH +	.600
SCALE =	.0300		•					BETAG =	.000	PHI =	7.500
pane	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							DX =	10.000	DY =	10.000
		RUN NO	. 748/ 0	RN/L =	3.31 GF	RADIENT INTE	RVAL	00/ 12.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.378	-1.632	.60020	10.95360	10.09140	.36570	7.50000	5.85880	.00020	02340	.00050	.00478
10.387	1.664	.60010	10.62560	10.08940	.36940	7.50000	5.85350	.00820	01990	.00020	.00390
10.394	6.264	.80010	10.30850	10.09480	.37000	7.50000	5.85260	.00070	01690	00016	.00320
10.402	13.375	.60860	9.82330	10.10030	.36640	7.50000	5.84730	60140	01789	.00220	.00210
10.423	28.632	.60090	8.77710	10.11670	.35660	7.50000	5.83630	.00390	01860	.00480	.00070
10.434	43.683	.60070	7.73850	10.12950	.34900	7.50000	5,82970	.01160	01650	.80480	00010
10.431	47.354	.60030	7.48270	10.13340	.34760	7.50000	5.83090	.01190	01530	.00440	00010
	GRADIENT	.00000	06894	.00100	.00013	.00000	00020	00163	.00065	00007	00015
		RUN NO	. 751/ 0	RN/L =	3.25 0	RADIENT INTE	RVAL .	00/ 12.00			
ALPHA0	DŻ	насн	אם	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.603	240	.59960	9.65580	10.10520	.91100	7.50000	5.88620	.00130	03160	00090	.00930
14.595	2.648	.59970	9.45510	10.10780	.91230	7.50000	5.89670	.00110	02750	~.00078	.00720
14.596	7.191	.59940	9.14070	10.11050	.91150	7.50000	5.00310	00120	02750	.00180	.00570
14.595	14.612	.59970	8.63500	10.12720	.90760	7.50000	5.87400	<b>01</b> 480	03270	.00810	.00320
14.603	29.756	.59940	7.58700	10.15000	.09650	7.50000	5.85730	.00120	02560	.00760	.00120
14.611	44.626	.59900	6.55800	10.17050	.89130	7.50000	5.84810	00560	02100	.00650	.00030
14.611	59.694	.59980	5.51570	10.18640	.88330	7.50000	5.83880	60370	01580	.00460	.00000
	GRADIENT	00807	06921	.00059	00818	.00000	00079	00051	.00000	.00055	00033

14.617

14.642

14.671

14.697

14.696

.59900

.59930

.59980

.59980

.60010

.60020

-.000002

4.549

8.657

16.518

31.266

46.167

61.030

GRADIENT

-2.64420

-3.20750

-4.27940

+6.30190

-8.35180

-.13657

-10.40650

10.13000

10.11960

10.12340

10.14970

10.17100

10.19280

-.00346

				or bally - C	NEU					ρ	ACE 148
			CA	20 747/1	01 51		CARRIER DAT	A	CAGNO	90) ( <b>9</b> 1	DEC 75. )
LREF =	REFEREN 5500.0000 SQ 327.7800 IN 2348.0400 IN .0300	.FT. XHR	P .	9000 IN.XC 0000 IN.YC 9000 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO =	PARAMETRIC B.000 .000 5.000	BETAC = ELV-OB = HACH = PHI =	.000 3.009 .500 7.500
		RUN NO	). 799/ O	RN/L =	3.28 G	RADIENT INTE	RYAL = .(	0x •	.000	DY =	19.000
ALPHAO 10.357 10.375 10.435 10.435 10.494 10.518 10.522	0Z 035 3.161 7.497 14.798 29.812 45.359 47.338 GRADIENT	MACH .60030 .59960 .60020 .60070 .59910 .59950 .60020 .00014	0X -1.02460 -1.45630 -2.04560 -3.04220 -5.10530 -7.24650 -7.51750 13591	0Y 10.11350 10.10060 10.09530 10.09790 10.11650 10.13900 10.14290 00122	BETAO .32780 .33860 .34380 .34630 .34030 .33420 .33230 .00120	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 ADIENT INTER	ALPHAN 9.65040 9.65910 9.65930 9.65560 9.64940 9.6490 9.64400	9ETA .01350 .00480 .00230 .00100 .01370 .00730 .00760 00058	CY 02260 02030 02100 01960 02000 01530 01450 00016	CLH 00250 00160 .00100 .00550 .00540 .00400 .00370	692. .00200 .00100 .00110 .00000 00000 00000 00000
ALPHA0 14.594	DZ 1.481	MACH .59950	DX -2.22770	DY 10.14370	BETAO .87480	PHI 7.50000	ALPHAH 9 EDSEN	BETA	CY	CLN	csr.

.87480

.88110

.88520

.88400

.87470

.86860

.86220

.00142

7.50000

7.50000

7.50000

7.50000

7.50000

7.50000

7.50000

.00000

9.69560

9.69070

9.68790

9.67930

9.66690

9.65650

9.65050

-.00105

-.00300

-.00590

-.00250

-.00270

--08210

.00758

.00011

.00160

-.03600

-.03560

~.03780

-.03700

-.02330

~.01950

-.01380

-.00027

-.00190

.00120

-00590

.00980

.00610

.00560

.00370

.00109

.00690

.00580

.00460

.00260

.03120

.00000

-.00050



#### TABULATED SOURCE DATA - CA20

PAGE 147 (AGN091) ( 01 DEC 75 ) CA20 747/1 01 St CARRIER DATA PARAMETRIC SATA REFERENCE DATA ALPHAC = 8.000 BETAC = .000 1339.9000 IN.XC XHPP SREF - 5500.0000 SQ.FT. ELV-IB . .000 = E0-VJ3 3.000 YHRP .000D IN.YC 327.7800 IN. ELEVON = 5.000 HACH .600 190,8000 IN.ZC ZHRP BREF # 2348.0400 IN. .000 PHI 7.500 BETAO . SCALE = .0300 10.000 10.000 DY DX GRADIENT INTERVAL -.00/ 12.00 3.28 RUN NO. 749/ 0 RF L = CY CLN CSL ALPHAH BETA DX DY BETAO PHI HACH **ALPHAO** DZ -.02240 -.00100 -.00048 10.09490 .34320 7.50000 9.73370 .00410 10.211 -2.473 .60010 9.37070 10.08320 .35240 7.50000 9.73220 .00470 -.01810 -.00170 -.00050 8.93780 10.231 .684 .59940 9.73090 .00260 -.01640 .00040 -.00080 7.50000 .59950 8.32140 10.07530 .36020 10.254 5.170 -.01810 .00210 -.00110 7.28040 10.07600 .35200 7.58000 9.72830 .00110 .59930 10.284 12.734 .00560 -.02020 .00550 -.08200 .35550 7.50000 9.72610 5.20360 10.09700 10.350 27.679 .59950 9.7.980 .00660 -.01650 .00450 -.00220 .35150 7.50000 10.390 42.827 .59970 3.09470 10.11470 10.12240 .34830 7.50000 9.72100 .00690 -.01540 .00420 -.00220 47.827 .60050 2.39640 10.396 -.00007 .00047 -.08087 .00174 -,00000 -.00029 -.00047 .00802 -.13739 -.00176 **GRADIENT** RN/L = 3.26 GRADIENT INTERVAL -.00/ 12.00 RUN NO. 750/ 0 CSL BETAO PHI **ALPHAH** BETA CY **ELN** DZ MACH ĐΧ DY ALPHAO .09550 7,50000 9.75910 .00240 -.03710 .00060 .00390 10.11780 14.458 -1.845 .59970 8.15120 9,75870 -.03190 .00030 .00310 7.50000 .00250 .59960 7.67690 10.10740 .90290 14.468 1.517 .00500 .00180 .60050 7.02750 10.09550 .90700 7.50000 9.75520 .01360 -.63410 6.361 14.487 .00030 5.97980 10.09910 .90650 7.50000 9.74700 .00160 +.03590 .00950 14.517 13.973 .60060 7.50000 9.73940 .00370 -.02570 .00740 -.00090 10.12300 .89680 14.559 28.748 .60010 3.93580 7.50000 9.73390 -.00330 -.02140 .00660 -.00170 41.006 .59970 2.22730 10.13620 .69270 14.582 .00650 -.00190 2.02840 10.13900 .89110 7.50000 9.72820 -.00310 -.02090 .69050 14.586 42.477 -.00120 .00440 -.00200 -,26060 10.16340 .89240 7.50000 9.72500 -.015BD 14.596 58.866 .59920 -.08074 .00234 -.00046 .00099 -.00027 .00086 .00000 GRADIENT .00019 -.13689 -.00251

61.405

GRADIENT

.60010

.00019

-4.45100

-.05844

9.13090

-.00050

CA20 757/1 01 SI CARRIER DATA (AGN092) I BI DEC 75 1 REFERENCE DATA PARAMETRIC DATA SREF = 5500.0000 SQ.FT. 1339.9000 IN.XC XHRP = ALPHAC = 4.000 BETAC = 5.000 YHRP -327.7800 IN. .0000 IN.YC ELV-18 = .000 ELV-08 = 3.000 BREF = 2348.0400 IN. ZHRP = 190.8000 IN.ZC ELEYON -5.000 MACH .600 SCALE = .0300 BETAO \* .000 PHI 7.500 DX = .000 BY 10.000 RUN NO. 789/ 0 RN/L = 3.37 GRADIENT INTERVAL = .00/ 12.00 **ALPHAO** DZ HACH DX DY BETAG PHI ALPHAN BETA CY CLN CSL 10.577 .72100 -.150 .59980 0.96510 .36680 7.50000 5.84990 4.98850 -.12970 .02110 -.00910 10.565 3.389 .60030 .48160 8.96960 .36970 7.50000 5.84870 4.98640 -.12750 .02320 -.01030 10.564 7.766 .60060 .18390 8.97340 .35770 7.50000 5.83930 4.98560 -.12450 .02410 -.01120 10.561 15.573 .59950 -.34810 8.97980 .35300 7.50000 5.83440 4.96720 -.12460 .02720 -.01250 10,569 30.037 -1.33700 .59900 8.99030 .34320 7.50000 5.82300 4.97980 -. 12450 .03030 -.01410 10.574 45.241 .60010 -2.37860 9.00170 .33720 7.50000 5.81630 4.98170 -.11800 .02810 -.01450 10.574 47.768 .59970 -2.55580 9.00290 .33650 7.50000 5.81790 4.99180 -.11780 .02810 -.01450 GRADIENT .00007 -.05801 .00087 -.08069 -.00000 -.00169 -.00010 .00069 .00021 -.00021 RUN NO. 794/ 0 RN/L = 3.31 GRADIENT INTERVAL = .00/ 12.00 ALPHAO DZ. MACH DX DY **BETAC** PHI ALPHAH BETA CY CLN CSL 14.741 1.968 .59930 -.37430 9.07530 .89280 7.50000 5.86070 5.00420 -.13680 .02060 -.00610 .59980 14.723 4.532 -.55020 9.07210 .89060 7.50000 5.85950 5.00000 -.13680 .02390 -.00750 14.712 8.968 .60060 -.85330 9.07150 .88960 7.50000 5.85570 5.01510 -.13310 .02530 -.00970 14.701 16.504 .59970 -1.37350 9.08220 .88480 7.50000 5.84130 5.00370 -.13270 .02940 -.01180 14.695 31.346 .60060 -2.39170 9.10610 .87490 7.50080 5.82510 5.00290 -.12650 .03020 -.01340 14.699 46.685 -3.43760 .59970 9.11960 .86940 7.50000

.86330

-.00043

7.50000

-.00000

5.81480

5.80759

-.00073

4.99540

5.00490

.00154

-.12230

-.11770

.00056

.03800

.02010

.00063

-.01430

-.01440

BATE OF DEC 75

TABULATED SOURCE DATA - CARD

EAST. 01 DC		*******									
			CY50	747/1	01 SI	C	CARRIER DATA	A	(AGHOR)	31 ( 01 D	EC 75 1
	REFERENC	E DATA							PARAHETRIC	DATA	
SREF = 5	500.0000 <b>5</b> Q.	FT. XHRP	<b>=</b> 1339.9	000 in.xc				ALPHAC *	4.000	BETAC -	5.000
	327.7800 IN.			000 IN.YC				ELV-IB =	.000	ELY-08 =	3.000
	348.0400 IN.			000 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAO ~	.860	PH1 =	7.500
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							DX =	10.800	0Y =	10.000
•		RUN NO	. 756/ 0	RN/L =	3.27 6	RADIENT INTER	RVAL = .	00/ 12.00			
ALPHAO	DZ	HACH	ρx	DY	BETAO	PHI	ALPHAH	BETA	CY	CLLN	CSL
10.407	-1.572	.60030	10.83100	8.07640	.37780	7.50000	5.85840	4.98230	12360	.02010	01060
10.397	1.296	.60880	10.63680	8.07760	.37490	7.50000	5.85760	4.98060	12260	.02190	01140
10.396	5.872	.60880	10.32578	8.08270	.37180	7.50000	5.85460	4.97180	12070	.02300	01210
10.403	13.650	.60030	9.79170	6.08480	.36790	7.50000	5.85130	4.96920	12150	.02580	01310
10.415	28.531	.59970	0.76850	8.09390	.35840	7.50000	5.84310	4.97310	12360	.02980	01460
10.423	43.642	.60020	7.72630	8.10690	.35200	7.50000	5,83760	4.97480	11780	.02800	~.0150C
10.426	47.246	.60080	7.47400	8.11120	.34990	7.50000	5.83890	4.97490	11720	.02780	01500
	GRADIENT	.00017	06799	.00111	-,00068	.00000	00066	00192	.00042	.00024	00015
		RUN NO	. 759/ 0	RN/L =	3.24 6	RADIENT INTER	RVAL = .	00/ 12.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.648	347	.68040	9.63370	8.18350	.91470	7.50000	5.88520	4.98300	12810	.01890	00790
14.628	2.762	.60080	9.42610	0.18750	.91280	7.50000	5.87930	4.97890	13020	.02330	00980
14.615	7.144	.59940	9.12810	0.18710	.91230	7.50000	5.87670	4.97800	12770	.02440	01090
14.606	14.929	.59920	8.69060	8.19200	.90870	7.50000	5.86460	4.97460	12860	.02820	01270
14.610	29.445	.59910	7.60310	8.22120	.9000	7.50000	5.85130	4.96530	12520	.02990	01400
14.615	44.674	.59940	6.55210	8.23570	.89450	7.50000	5.83930	4.96520	12230	.03000	01480
14.618	59.607	.59928	5.51130	0.25220	.88490	7.50080	5.83790	4.97470	11750	.02810	01500
	GRADIENT	00032	06800	00009	66011	00000	00059	00021	.60057	.00025	00025

3.000

7.500

10.000

.600

CA20 747/1 01 S1

#### CARRIER DATA

ĐΧ

(AGN094) ( B1 DEC 75 )

PARAHETRIC DATA

.000

DY

## REFERENCE DATA

GRADIENT

.00006

-.13571

-.00403

#### SREF - 5500.0000 SQ.FT. XHRP - 1339.9000 IN.XC ALPHAC = 9.000 BETAC . LREF = 327.7800 IN. YMRP = .0800 IN.YC ELV-18 = .000 ELV-08 = BREF = 2348.0400 IN. 2HRP \* 190.8000 IN.ZC ELEVON . 5.000 HACH \* SCALE = .0380 BETAD = .000 PHI

		RUN N	0. 880/ 0	RN/L =	3.28 GR	ADIENT INTE	RVAL = .0	00.SI \OO			
ALPHAO	DZ	MACH	אם	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.383	121	.59930	-1.02330	8.91870	.34720	7.50000	9.65660	4.99450	(2350	.01720	
10.394	3.260	.59930	-1.48700	8.91930	.34590	7.50000	9.65730	4.99140			01100
10.408	7.350	.60060	-2.03700	8.91600	.34470	7.50000			12270	-02050	01230
10.448	15.415	.59950	~3.14280				9,65340	5.06470	12160	.02260	01300
				0.91490	.34670	7.50000	9.65240	4.99410	12090	.02570	01420
10.505	30.092	.60000	<b>-5.</b> 16010	8.92880	.34150	7.50000	9.64660	5.00160	11550	.02580	01520
10.523	45.305	.59990	-7.25270	8.94660	.33540	7.50800	9.64150	4.98740	11100	.02460	01570
10.526	47.357	.60070	-7.53260	8.94780	.33480	7.50000	9.63840	4.99510	11090	.02460	01580
	GRADIENT	.08032	13514	00081	08029	.00003	00096	.00327	.00027	.00052	00017
		RUN N	0. 795/ 0	RN/L =	3.30 GRA	DIENT INTER	O. = JAVI	0/ 12.00			
ALPHAO	DZ	MACH	ĐΧ	DY	DETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.669	1.223	.59980	-2.21010	9.06050	.87620	7.50000	9.69330	4.97390	~. 14140	-02230	00800
14.604	4.295	.60010	-2.62530	9.04320	.87780	7.50000	9.68930	4.98640	14610	02540	
14.610	9.099	.60030	-3.27870	9.02810	.88110	7.50000	9.69390	4.99180	= =		00930
14.633	16.424	.59900	-4.27540	9.03250	.86090				13690	.02790	01030
14.673	31.163	.60010	-6.30030			7.50000	9.67580	4.98360	13020	.02840	01270
				9.04260	.87580	7.50000	9.66440	4.99120	12280	.02850	01450
14.686	45.448	.59990	-8.40360	9.06230	.87040	7.50000	9.65340	4.97790	11510	.02620	01540
14.698	61.101	.60050	-10.43360	9.08130	.86590	7.50000	9.64950	4.98680	11200	.02510	01580
	COADIENT	00000	_ 17071	- 001-07	0000						

.80053

-.00000

-.00119

.00217

.00058

.00069

-.00028

----

TABULATED SOURCE DATA - CAZO

										7.4	MC 131
			CA20	747/1	01 51		CARRIER DAT	Ά.	(AGNO	951 (DLD	EC 75 1
	REFER	ENCE DATA							PARAMETRIC	DATA	
SREF =	5500.0000 9	SQ.FT, XMRP	• 1339.90	00 IN.XC				ALPHAC =	8.000	BETAC =	5.000
LREF -	327,7800	IN. YHRP	.00	100 IN.YC				ELY-IB =	.000	ELV-DE =	3.000
BREF =	2348,0400	IN. ZHRP	· 180.80	000 IN.ZC				ELEVON =	5.000	HACH =	.505
SCALE #	.0300							# OAT38	.000	PHI =	7.506
								DX =	10.008	DY •	10.000
		RUN NO.	757/ 0	RN/L =	3.26 GF	RADIENT INTE	RVAL = .	00/ 12.00			
ALPHAO	DZ	ИАСН	DX	DΥ	BETAG	PHI	ALPHAH	BETA	CY	CLN	CS.
10.229	-2.945	.60060	9.43320	8.02160	.36630	7.50000	9.72940	4.98930	11980	.01550	00878
10.238	.916	.59990	0.90030	0.02590	.36290	7.50800	9.72990	4.97780	12060	.01950	+.08880
10.254	5.217	.59920	8.30880	8.02100	.35370	7.50800	9.72940	4.98330	11990	.02180	00930
10.286	12.241	01003.	7.33910	0.02610	.36490	7.50000	9.72730	4.96470	12110	.02518	00990
10.352	27.562	.60020	5.20990	8.03700	.35920	7.50000	9.72460	4.97830	11910	.02780	01100
10.383	42.621	.59970	3.12000	8.65510	.35360	7.50000	9.71610	4.97170	11440	.02580	01149
10.385	47.597	.59990	2.41280	8,05700	.35090	7.50000	9.71670	4.97960	11400	.02578	01140
	GRADIENT	00016	13752	~.00114	.00019	.00000	00012	.00128	.00016	.00053	00012
		RUN NO.	758/ 0	RN/L =	3.26 GR	ADIENT INTE	RVAL = .	00/ 12.00			
ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	8ETA	CY	CLN	CS.
14.510	-1.170	.60020	8.03630	8.17130	.90250	7.50000	9.75370	4.98380	13380	.02090	~.00890
14.584	1.917	.60850	7.62130	8.16420	.90580	7.50000	9.75550	4.97220	13570	.02500	00960
14.507	6.296	.59960	7.02320	9.15640	.90740	7.50000	9.75160	4.96980	13470	.02760	01050
14.530	13.848	.60020	5.98650	8.14470	.90720	7.50000	9.74450	4.98380	13050	.02900	01130
14.567	29.243	.60030	3.86020	8.15720	.90150	7.50000	9.73420	4.97640	12350	.02870	01090
14.594	43.847	.60080	1.82560	8.17000	.89540	7.50000	9.73000	4.97790	11790	.02720	01120
14.605	58.656	.60070	24170	8.19240	.88780	7.50000	9.72470	4.97150	11400	.02590	01140
	GRADIENT	00021	13690	00179	.00037	.00000	00095	00055	.00023	.00060	00023

CARRIER DATA

(AGN096) ( 81 CEC 75 )

112 5. Dec 75

CA20 747/1 OI SI

	REFERENC	E DATA							PARAMETRIC	DATA	
SREF * 5	500.0000 <b>5</b> 0.	FT. XHRF	= 1339.9	9000 IN.XC				ALPHAC =	4.000	BETAC =	-5.000
	327.7860 IN.		-	0000 IN.YC				ELV-18 =	.000	ELV-08 =	3.000
	348.0400 IN.			3000 IN.ZC				ELEYON =	5.000	HACH =	.600
SCALE *	.0300							BETAO =	-5.000	PHI *	7.500
<del>_</del>							•	ox -	.000	DY -	10.000
		RUN NO	. 804/ 0	RN/L =	3.20 G	RADIENT INTER	VAL	00.51 \00			
ALPHAO	DZ	<b>МАСН</b>	ÐХ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.581	.639	.59990	.65310	11.60330	-4.90570	7.50000	5.85380	-4.99380	.07360	01720	.01690
10.577	3.578	.59970	.45410	11.60440	-4.90260	7.50000	5.84720	-4.98290	.07530	01740	.01700
10.576	7.854	.60050	.16150	11.61590	-4.90650	7.50000	5.84590	-4.97530	.07710	01730	.01580
10.583	15.309	.60030	34730	11.63520	-4.91210	7.50800	5.83640	-4.98310	.07910	01720	-01590
10.601	30.620	.60970	-1.40130	11.66810	-4.92520	7.50000	5.82710	-4.97290	.08730	01990	.01540
10.617	45.347	01803.	-2.42020	11.68410	-4.92890	7.50000	5.81980	-4.97990	.09040	02070	.01480
19.614	47.836	.59960	-2.59130	11.62650	-4.93060	7.50000	5.81890	-4.97198	.09170	02110	.01470
	GRADIENT	.00009	06915	.00191	00017	.08880	00104	.00212	.03049	00001	00002
		RUN NO	. 805/ 0	RN/L =	3.29 G	RADIENT INTER	YAL	.00/ 12.00			
ALPHAO	DZ	HACH	ĐX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
14.882	1.971	.699 <b>70</b>	39910	11.58740	-4.33990	7.50000	5.87860	-4.99520	.05470	01250	.02000
14.785	4.974	.60890	60690	11.58650	-4.33580	7.50000	5.87750	-4.98020	.05630	01200	.02030
14.775	9.438	.59980	91750	11.59210	-4.33820	7.50800	5.87070	-4.97878	.06220	01370	.01950
14.774	16.557	.60050	-1.40750	11.61020	-4.34400	7.50000	5.86150	-4.98720	.06460	~.01270	.01790
14.779	31.753	.60030	-2.45270	11.64460	-4.35890	7.50000	5.84370	-4.98040	.07060	01170	.01500
14.774	47.052	.69920	-3.50320	11.66200	-4.35560	7.50000	5.82950	-4.98910	.08630	+.01910	.01540
14.772	61.438	.59970	-4.4930	11.67880	-4.37510	7.50000	5.82190	-4.97970	.09070	02100	.01510

.00019

.00058

GRADIENT

-.00013 -.06943

.00000

-.00112

.00207

.00103

-.00018



GRADIENT

.00002

-.13567

TABULATED SOURCE DATA - CA20

PAGE 153 CARRIER DATA (ACN097) ( 81 DEC 75 ) CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA BETAC . ALPHAC = 8.000 -5.000 1887 -1339.9000 IN.XC SREF = 5500.000G SQ.FT. ELV-08 = 3.000 YHRP .0000 IN.YC ELV-IB = .000 LREF = 327.7800 IN. ELEVON -5.000 HACH .600 199.8000 IN.ZC ZHRP \* BREF = 2348.0400 IN. BETAO = -5.000 PHI 7.500 SCALE = .0300 .000 ΩY 10.000 ĐΧ RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00 RUN NO. 811/ 0 CSL CLN MACH DX DY BETAO PHI ALPHAH BETA CY ĐΖ **ALPHAO** 9.57230 -4.98240 .06910 -.01560 .01448 .59910 -1.05190 11.61180 -4.92370 7.50000 10.393 -.093 9.67070 -4.97430 .07178 -.01600 .01460 -4.91330 7.50000 2.882 .60020 -1.45190 11.60080 10.413 -.01500 .01476 -2.09240 11.60720 -4.90876 7,50000 9.66620 -4.97440 .07428 10.438 7.530 .59990 7.50000 9.66350 -4.97360 .07870 -.01670 .01490 -3.13490 11.63100 -4.91100 10.483 15.189 .60080 .01509 7.50000 9.65390 -4.97220 .08480 -.01840 29.943 .59960 -5.16010 11.67380 -4.92360 10.527 .01510 45.352 .60010 -7.29310 11.70260 -4.92950 7.50000 9.65000 -4.97110 .09770 ~.01950 10.564 -4.93000 7.50000 9.65160 -4.98630 .08890 -.01990 .01510 -7.60080 11.70560 .59980 10.566 47.556 50000. .00099 .00000 -.00097 -.00002 .08054 .00000 -.13565 .00138 GRADIENT -.00006 RUN NO. 810/ 0 RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00 **ALPHAN** BETA CY CLN CŞL, HACH DX DY **BETAO** PHI DZ ALPHAO .01960 11.58110 -4.34470 7,50000 9.70740 -4.97590 .05540 -.01460 .60046 -2.17220 19.580 .829 9.69930 -4.99360 .05950 +.01470 .01850 11.58530 -4.33890 7,50000 19 684 3.926 .59960 -2.59130 -4.98390 .06230 -.01430 .01780 9.69450 .60050 -3.13840 11.58450 -4.33550 7.50000 14 700 7.951 -.01260 .01630 -4.22030 11.60190 -4.33950 7.50000 9.68490 -4.97770 .05480 is 711 15.864 .59950 11.65440 -4.35420 7.50000 9.67290 -4.97590 .07580 -.01460 .01560 4.732 30.777 .59960 -6.27550 .08350 -.01800 .01550 9.66090 -4.9B040 -4.36110 7.50000 17.745 45.232 .60020 -8.26290 11.67759 .01550 -.01960 69.426 .59990 -10.26960 11.69300 -4.37020 7.50000 9.59840 -4.96340 .08770 14.748 .00127 .00000 -.00178 -.00107 .00096 .00004 -.00012

.00044

19.62940

10.65410

10.66970

10.68370

-.00042

-.88860

-1.43520

-2.42890

-3.49310

-4.52010

-.06996

.52560

.60030

.53940

.60050

.60050

-.00017

7.50000

7.50000

7.56000

7.50000

7.50000

.00800

5.88130

5.86420

5.84360

5.83390

5.83040

-.00122

.00570

.00940

.01190

.00500

.00300

-.00015

-.03630

-.03410

-.03210

-.01650

-.01180

.00179

.00310

.01620

.01300

.01160

.02120

-.00898

.00380

.00200

-.00070

-.00010

-.00020

-.00013

PARAMETRIC DATA

#### REFERENCE DATA

9.244

17.214

31.661

47.097

61.842

GRADIENT

14.785

14.782

14,782

14.778

14.777

.000 ALPHAC = 4.900 BETAC = XHRP = 1339,9000 IN.XC SRFF = 5500.0000 SQ.FT. 3.000 ELY-09 -ELV-18 = .000 .0000 14.YC **ሃዝ**የዖ = LREF = 327.7800 IN. MACH .600 ELEVON -5.000 190.8000 IN.ZC ZMRP = BREF = 2348.6400 IN. 7.500 -5.000 PHI BETAD = .0300 SCALE \* .000 DY 10.000 DX GRADIENT INTERVAL . .00/ 12.00 RUN NO. 803/ 0 RN/L = 3.29 CSI. CLH. BETA CY ALPHAH BETAO PHI DY MACH ĐΧ DZ ALPHAD .00290 -.03000 .00310 7.50000 5.84440 -.00200 -4.90970 .66640 10.56860 . 754 .59940 10.589 -.02320 .00160 .00260 5.84070 .00000 7.50000 10.56580 -4.90B60 .59900 .46860 3.682 10.591 .00180 .00240 .00630 -.02140 7,50000 5.83450 -4.91650 10.57170 .60050 .18690 7.612 10.585 -.02230 .00560 .02040 .00350 7.50000 5.82350 -.31050 10.56790 -4.91080 .60020 15.159 10.587 .00510 -.00030 -.00390 -.01660 -4.92080 7.50000 5.81450 10.59810 -1.22300 .60030 10.599 28.483 -.00010 .00650 -.00940 .00220 7.50000 5.80530 -4.92840 10.61570 .60050 -2.39880 45.607 10.609 -.00020 -.08910 .00210 .00660 -4.92650 7.50000 5.80650 -2.55520 10,61480 .60020 10.609 47,846 -.00016 -.00007 .00117 -.00914 .00000 -.00141 .00120 -.05798 .00052 .00017 GRADIENT GRADIENT INTERVAL . .00/ 12.00 RUN NO. 806/ 0 RN/L = 3.28 CSL BETA CY CL 1 ALPHAN PHI BETAO MACH DΧ DY ĐΖ ALPHAO .00470 .70690 -.049305.88990 .00980 10.63100 -4.34420 7.50000 .60080 -.38660 14.807 2.070 .00470 .00580 .01080 -.04190 7.50000 5.88920 -4.34220 10.62780 .60030 -.60460 14.795 5.158

-4.34200

-4.34560

-4.35590

-4.36210

-4.37840

.00029

TABULATED SOURCE DATA - CARD

			CYS	747/1	01 51	C	ARRIER DATA	١.	(AGNOS	3) t 01 D6	C 75 1
	REFERENC	E DATA							PARAMETRIC	DATA	
SREF = 5	500.0000 SQ.	FT. XMRF	· 1339.9	0000 IN.XC				ALPHAC =	8.000	BETAC =	.000
LREF =	327.7800 IN.	YMRE	), • •	1800 IN.YC				ELV-IB =	.000	ELV-08 =	3.000
BREF = 6	348.0400 IN.	ZHRP	· = 190.8	1000 IN.2C				ELEVON =	5.000	HYCH =	.600
SCALE =	.0300							BETAO =	-5.000	PHI =	7.580
								DX =	.000	DY =	10.000
		RUN NO	). 812/ G	RN/L =	3.28 GF	RADIENT INTER	RVAL = .C	00/ 12.00			
ALPHA0	DZ	HACH	ĐX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.406	598	.60000	96780	10.55670	-4.93340	7.50000	9.67260	08310	02430	60148	.00016
10.423	3.065	.60033	-1.45270	10.54650	-4.92570	7.50000	9.66800	00610	02470	.00170	00020
10.446	7.573	.60010	-2.07700	10.53970	-4.91900	7.50000	9.66960	08850	02470	.00420	00050
10.488	15.463	.60050	-3.15600	10.53970	-4.91500	7.50000	9.66200	00260	02280	.00520	00118
10.541	30.172	.59930	-5.18260	10.56410	-4.91980	7.50000	9.65478	.00010	01320	.09330	00090
10.563	44.995	.59930	-7.22310	10.59760	-4.92660	7.50000	9,64680	.00120	00990	.00220	00100
10.567	47.483	.60010	-7.43590	10.58970	-4.92750	7.50000	9.54790	.00120	00910	.00200	00100
	GRADIENT	00004	13666	00149	.00147	.00000	.00035	00053	.00000	.00055	08009
		RUN NO	). 809/ 0	RN/L =	3.27 GF	RADIENT INTER	RVAL = .I	00/ 12.00			
ALPHA0	DZ	HACH	DX	DY	BETAD	PHI	ALPHAH	BETA	CY	CLN	CSL
14.690	.880	.60010	-2.20570	10.62000	-4.36030	7.50000	9.78690	.00160	03970	.00140	.00290
14.694	3.883	.59920	-2.61840	10.61290	-4.35390	7.50000	9.78560	06800	03740	.00330	.00230
14.781	8.089	.59998	-3.19440	10.60340	-4.34950	7.50000	9.77680	.00430	03720	.00680	.00180
14.719	15.576	.60050	-4.22500	10.60120	-4.34600	7.50000	9.76790	08550	03400	.00910	.00060
14.734	30.598	.59970	-6.31890	10.63630	-4.35490	7.50000	9.75500	08450	02410	.00810	00030
14.751	45.433	.60800	-8.38220	10.65290	-4.36030	7.50000	9.74330	00010	01310	.00340	~.00030
14.752	60.072	.59990	-10.42840	10.66490	-4.36690	7.50000	9.73740	.00100	00980	.00230	00050
	GRADIENT	80003	13714	00230	.00147	.00800	00145	.00054	.00033	.00075	00015

			CAZE	747/1	01 \$1		CARRIER DA	<b>LTA</b>	(AGN10	)O) ( 01 D	EC 75 }
	REFER	ENCE DATA							PARAMETRIC		
									PARAFE INIL	SWIM	
	5500.0080	SQ.FT. XHRP	- 1339.9	1000 IN.XC				ALPHAC =	4.600	BETAC =	
LREF =	327.7800	IN. YHRP	= .0	080 IN.YC				ELV-18 =	.000	BETAC = ELY-CB =	5.000
	2349.0400	IN. ZMRP	<b>=</b> 190.8	080 IN.ZC				ELEVON =	5.000		3.000
SCALE =	.0380							BETAO =	-5.000	PHI =	.600
								DX =	.000	DX •	7.500
											10.000
		RUN NO	. 802/ 0	RN/L =	3.31	GRADIENT INT	ERVAL =	.00/ 12.00			
ALFHAO	OZ	HACH	DX	DY	6ET/						
10.622	.542	.60000	.66220	9.42040			ALPHAH		CY	CLN	CSL.
10.612	3.385	.60040	.47030	9.42520	~4.893			4.96470	14040	.02990	01380
10.597	7.664	.60000	.18040		-4.899			4.97190	~.13680	.03040	01440
10.597	15.623	.80080	35820	9.43110	-4.905			4.98920	12830	.02850	01470
10.664	30.599	.5998B	-1.38180	9.44230 9.45100	-4.910			4.96770	11940	.02570	01490
10.687	45.321	.60010	-2.38970	9.46750	-4.918			4.98430	11210	.02550	01480
10.608	47.816	.59960	-2.55310	9.47050	-4.928			4.97560	11010	.02540	01470
	GRADIENT	00001	06765	.00149	-4.927		5.80230	4.98460	10880	.02510	01478
		,00001	00100	.00179	001	60 .00000	00119	.00349	.00172	00022	00012
		RUN NO.	907/ 0	RN/L =	3.28	GRADLENT INT	ERVAL = ,	.00/ 12.00			
ALPHAO	DZ	HACH	ĐΧ	DY	BETA	.0 PHI	ALPHAH	DETA	<b>A.</b> .		
14.662	2.028	.59920	39040	9,55980	-4.335		5.85930	BETA	CY	CLN	CS.
14.831	4.948	.60030	59900	9.55940	-4.335		5.85320	4.97110	15300	.03120	~.01190
14.807	9.169	.60040	87690	9.56420	-4.339		5.84780	4.97710	14960	.03300	01260
14.793	16.781		-1.46070	9.55640	-4.342		5.84760	4.98400	14440	.03380	01380
14.783	31.685		-2.41640	9.57980	-4.353		5.81770	4.98590	13370	.03200	01460
14.782	46.800		~3,45430	9.59530	-4.358		–	4.9968D	12050	.02850	01470
14.777	61.889		-4.49120	9.60740	-4.367		5.80880 5.80130	4.98200	11620	.02780	01480
	GRADIENT	.00016	06814	.00065	800			4.99120	11190	.02620	01490
					.000	08080	00170	.00179	.00121	.00035	00027



SCALE =

ALPHAO

10.452

10.446

10.457

SREF = 5500,0000 SQ.FT.

.0300

OZ

-.442

3.090

7.446

LREF \* 327.7800 IN.

BREF = 2348.0400 IN.

REFERENCE DATA

YHRP -

DX

HACH

.59950

.59940

.59950

TABULATED SOURCE DATA - CARD

CA20 747/1 01 51 CARRIER DATA (AGN101) ( D1 DEC 75 ) PARAMETRIC DATA XMRP = 1339.9000 IN.XC ALPHAC = B.000 BETAC = 5.000 .0000 IN.YC ELV-IB = .000 ELV-08 = 3.000 ZMRP = 190.8000 IN.ZC ELEVON = 5.000 HACH .600 BETAO = -5.000 PHI 7.500 DX .000 DY 10.000 RUN NO. 813/ D RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00 DY BETAO PHI ALPHAH BETA CY CLN CSL -1.00350 9.33640 -4.90170 7.50000 9.67500 5.00340 -.13310 02440 -.01100 -1.48320 9.34360 -4.90930 7.50000 9.67640 4.99520 -.12670 .02480 -.01120 -2.07650 9.33990 -4.98990 7.50000 9.67680 5.00300 -.12140 .02460 -.01150

			- 1.01030	3.33330	-4.90990	7.50000	9.67680	5.00300	12140	.02460	01150
10.492	15.406	.60030	-3.16620	9.35320	-4.91170	7.50000	9.67040	4.98840	-,11400	.02360	-
10.544	30.322	.59990	-5.21950	9.36460	-4.91650	7.50000	9.66170	5.00330	1099D		01150
10.565	44.966	.60030	-7.24190	9.38730	-4.92340	7.50000	9.65800			.02420	~.01150
10.568	47.470	.59940	-7.59050	9.39030	-4.92370	7.50000		4.99650	10670	.02330	01140
	GRADIENT	.00002	13620				9.65730	4.99660	10620	.02320	01130
	OUNDICH	.00002	13060	00095	00037	.00000	.00009	.00179	.00122	00005	00007
		RUN N	0. 809/ 0	RN/L =	3.28 GR/	WIENT INTER	VAL0	12.00			
ALPHAO	DZ	HACH	DХ	DY	BETAO	PHI	ALPHAH	BETA	CY	<b>~</b>	
14.737	1.500	.59960	-2.26980	9.52040	-4.34530	7.50000	9.70640	4.96760		CLN	CSL
14.727	4.732	.59970	-2.70730	9.51530	-4.34640	7.50000			~.14950	.02900	01180
14.725	9.125	.60070	-3.30300	9.50660	-4.34710		9.70310	4.97450	14330	.02990	01250
14.735	16.620	.59920	~4.35290			7.50000	9.69750	4.99770	13610	.02980	01320
14.755				9.50260	-4.34540	7.50000	9.68820	4.98480	12410	.02718	01350
	31.671	.60060	-6.39490	9.52470	-4.35200	7.50000	9.67960	4.99700	11380	.02480	01200
14.761	46.564	.60030	-8.45280	9.53750	-4.35700	7.50000	9.67160	4.98740	11020	.02450	01140
14.756	61.712	.60010	-10.55320	9.56010	-4.36580	7.58080	9.66500	4.98810	10820		
	GRAD1ENT	.00015	13552	60182	00023	.00000	00142	<del>-</del>		.02400	01120
							00145	.00403	.00175	.00010	00019

			CAS	0 747/1	01 S1	C	ARRIER DAT	٨	(AGH10	15) [ 01 D	EC 75 )
	REFEREN	CE DATA					-		PARAHETRIC	DATA	
SREF =	5500.0000 50	.FT. XHRP	<b>=</b> 1339.	9000 IN.XC				ALPHAC =	4.000	BETAC .	-5.000
LREF =	327.7800 IN	. YHRP	w ,	0000 IN.YC				ELV-IB .	.000	= BO-VJ3	3.600
BREF =	2348.0400 IN	. ZHRP	= 190.5	8000 IN.ZC				ELEVON =	5.000	MACH =	-600
SCALE =	.0300							BETAO =	-5.000	PH! =	7.500
								EX -	.600	DY =	10.000
		RUN NO	. 815/ 0	RN/L =	3.26 G	RADIENT INTER	IVAL = .	00/ 12.00			
ALPHAO	) DZ	HACH	DX	GY	BETAO	PHI	<b>ALPHAH</b>	BETA	CY	CLX	CSL
14.790	1.983	.60070	39550	11.56920	-4.33750	7.50000	5.87520	-4.98760	.05440	01240	.0201\$
14.773	4.801	.60000	59210	11.57770	-4.33630	7.50000	5.87430	-4.98050	.05590	01170	.02048
19.771	9.259	.59970	89880	11.57700	-4.33780	7.50000	5.86980	<del>-4</del> .96350	.06190	01340	.01950
14.778	16.962	.60030	-1.42840	11.59840	-4.34500	7.50000	5.86010	-4.9799D	.05450	01220	-01790
14.773	31.562	.60000	-2.43150	11.62830	-4.35920	7.50000	5.84300	-4.9729D	.07840	+.01150	-01490
14.769	46,760	.60020	-3.47550	11.64520	-4.36560	7.50000	5.82890	-4.97390	.08530	01890	.01530
14.768	61.866	.60010	-4.51840	11.66000	-4.37310	7.50000	5.82040	-4.97220	.09020	02070	.01480
	GRADIENT	00013	06913	.20096	00007	00000	00077	.00336	.00106	00015	00009
			CAZ	147/1	OI 51	c	ARRIER DATA	A	(AGH10	31 (01 0	EC 75 1
	REFEREN	CE DATA	CAR	. 747/1	OI SI	c	ARRIER DATA	A	(AGN10		EC 75 1
SREF =	REFERENC			747/1	01 S1	c	ARRIER DATA		PARAHETRIC	DATA	
SREF *		.FT. XHRP	• 1339. <u></u>	,	01 S1	c	ARRIER DATA	ALPHAC =	PARAHETRIC	DATA BETAC =	.000
LREF =	5500.0000 SQ	FT, XHRP , YHRP	• 1339.5 • .0	9000 IN.XC	OI SI	c	ARRIER DATA	ALPHAC = ELV-18 =	PARAMETRIC 4.000 .000	DATA  BETAC = ELV-08 =	.000 3.000
LREF =	5500.0000 SQ. 327.7800 IN.	FT, XHRP , YHRP	• 1339.5 • .0	9000 IN.XC	OI SI	c	ARRIER DATA	ALPHAC =	PARAMETRIC 4.000 .000 5.000	DATA  EETAC = ELV-OB = HACH =	.000 3.000 .600
LREF =	5500.0000 SQ. 327.7800 IN. 2348.0400 IN.	FT, XHRP , YHRP	• 1339.5 • .0	9000 IN.XC	OI SI	c	ARRIER DATA	ALPHAC = ELV-IB = ELEVON =	PARAMETRIC 4.000 .000	DATA  BETAC =  ELV-08 =  HACH =	.000 3.000
LREF =	5500.0000 SQ. 327.7800 IN. 2348.0400 IN.	FT, XHRP , YHRP	• 1339.9 1. • 190.8	9000 IN.XC		C NADIENT INTER		ALPHAC = ELV-1B = ELEVON = BETAO =	PARAMETRIC 4.000 .000 5.000 -5.000	DATA  BETAC = ELV-OB = HACH = PHI =	.000 3.000 .800 7.500
LREF =	5509.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300	FT. XHRP YHRP ZHRP	• 1339.9 • .0 • 190.6	0000 IN.XC 0000 IN.YC 0000 IN.YC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	PARAMETRIC 4.000 .000 5.000 -5.000 .000	BETAC = ELV-OB = HACH = PHI = GY =	.000 3.000 .500 7.500 10.000
LREF = BREF = SCALE =	5509.0000 SQ. 327.7800 IN. 2348.0400 IN. .0360	FT. XHRP YHRP ZHRP RUN NO.	• 1339.5 • .1 • 190.6	9000 IN.XC 1000 IN.YC 8000 IN.ZC	3.24 GF	NADIENT INTER	VAL = .E	ALPHAC = ELV-18 = ELEVON = BETAO = OX = OX = DETA	PARAMETRIC 4.000 .000 5.000 -5.000 .000	OATA  BETAC = ELV-OB = HACH = PHI = DY =	.900 3.000 .500 7.500 10.000
LREF = BREF = SCALE =	5509.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300	FT. XHRP YHRP ZHRP RUN NO.	- 1339.9 0 - 190.8 - 814/ 0	9000 IN.XC 1900 IN.YC 1900 IN.ZC RN/L =	3.24 GA	udient inter Phi	VAL = .E HAHHAH	ALPHAC = ELV-1B = ELEVON = BETAO = OX = TABE	PARAMETRIC 4.000 .000 5.000 -5.000 .000	BETAC = ELV-OB = HACH = DY =	.000 3.000 .500 7.500 10.000
LREF = BREF = SCALE = ALPHAO 14.793	5509.0000 SQ. 327.7800 IN. 2348.0400 IN0300	FT. XHRP YHRP ZHRP RUN NO. HACH	- 1339.5 - 190.8 - 190.8 - 190.8 - 190.8	9000 IN.XC 1000 IN.YC 1000 IN.ZC RN/L = DY 10.63030	3.24 G6 9ETA0 -4.34420	ADIENT INTER PHI 7.50000	VAL = .( ALPHAH 5.89550	ALPHAC = ELV-1B = ELEVON = BETAO = DX = BETA - DI290 - 01210	PARAMETRIC 4.000 .000 5.000 -5.000 .000 CY 04580 04000	BETAC = ELV-08 = HACH = DY = CLN .00540 .00540	.000 3.000 .500 7.500 10.000 CSL .00536
LREF = BREF = SCALE = ALPHA0 14.793 14.782	5500.0000 SQ. 327.7800 IN. 2348.0400 IN0300  DZ 2.161 5.231	FT. XHRP YHRP ZHRP RUN NO. HACH .50000 .59970	- 1339.5 - 190.8 - 190.8 - 190.8 - 1917.0 - 1917.0 - 1917.0	0000 IN.XC 0000 IN.YC 0000 IN.ZC RN/L = DY 10:63030 10:62790	3.24 GF 0AT38 -4.204-20 -4.34280	RADIENT INTER PHI 7.50000 7.50000	VAL ⇒ .( ALPHAH 5.88550 5.87880	ALPHAC = ELV-1B = ELEVON = BETAO = OX = TABE	PARAMETRIC 4.000 .000 5.000 -5.000 .000 CY 04680 04000 03540	ELV-08 = HACH = BY = CLN - 00648 - 00550	.000 3.000 .600 7.500 10.000 CSL .00536 .00518
ALPHAO 14.793 14.792 14.771	5500.0000 SQ. 327.7800 IN. 2348.0400 IN0300  DZ 2.161 5.231 9.123	FT. XHRP YHRP ZHRP RUN NO. HACH .60000 .59970 .59920	= 1339.5 = 190.8 = 190.8 0x - 39170 - 50470 - 87590	2000 IN.XC 2000 IN.YC 2000 IN.ZC RN/L = DY 10.63030 10.62790 10.62870	3.24 GF BETAO -4.34420 -4.34280 -4.34290	PHI 7.50000 7.50000 7.50000 7.50000	VAL = .0 ALPHAH 5.88550 5.87880 5.87490	ALPHAC = ELV-18 = ELEVON = BETAO = DX = BETA012900121002000	PARAMETRIC 4.000 .000 5.000 -5.000 .000 CY 04580 04000	ELY-08 = HACH = HACH = GY =  CLN .00540 .00540 .00560 .00790	.000 3.000 .600 7.500 10.000 CSL .90536 .00518 .00426
ALPHAO 14.793 14.762 14.771	5500.0000 SQ. 327.7800 IN. 2348.0400 IN0300  DZ 2.161 5.231 9.123 16.756	FT. XHRP YHRP ZHRP RUN NO. HACH .50000 .59970 .59920 .59950	= 1339.5 = 190.8 = 190.8 = 190.8 OX = 39170 = 50470 = 1,40020	2000 IN.XC 2000 IN.YC 2000 IN.ZC RN/L = DY 10.63030 10.62790 10.62870 10.62870	3.24 GF BETA0 -4.34420 -4.34280 -4.34290 -4.34500	PHI 7.50000 7.50000 7.50000 7.50000 7.50000	VAL → .( ALPHAH 5.89550 5.87880 5.87490 5.96050	ALPHAC = ELV-18 = ELEVON = BETAO = CX   CX   CX   CX   CX   CX   CX   CX	PARAMETRIC 4.000 .000 5.000 -5.000 .000 CY 04580 04500 03540 03240	ELV-08 = HACH = BY = CLN - 00648 - 00550	.000 3.000 .600 7.500 10.000 CSL .00536 .00518
ALPHA0 14.793 14.792 14.771 14.766 14.769	5500.0000 SQ. 327.7800 IN. 2348.0400 IN0300  DZ 2.161 5.231 9.123 16.756 31.625	FT. XHRP YHRP ZHRP RUN NO. HACH .5000p .59970 .59920 .59950 .60020	• 1339.5 • 190.8 • 190.8	0000 IN.XC 0000 IN.YC 0000 IN.ZC RN/L = DY 10.63030 10.62790 10.62870 10.62590 10.65530	3.24 GF BETAO -4.34420 -4.34290 -4.34500 -4.35590	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	VAL → .6 ALPHAH 5.89550 5.87880 5.87490 5.86050 5.93930	ALPHAC = ELV-18 = ELEVON = BETAO = DX = D	PARAMETRIC 4.000 .000 5.000 -5.000 .000 CY 04580 04500 03540 03240 03060	ELY-08 = HACH = HACH = DY =  CLN .00540 .00540 .00550 .00790 .01180	.000 3.000 .600 7.500 10.000 CSL .00536 .00518 .00426 .00240

TABULATED SOURCE DATA - CA20

										PA	OK 128
			CASO	747/1	01 51	1	CARRIER DA	TA	(AGN)	943 E 81 D	EC 75 3
REFERENCE DATA									PARAMETRIC	DATA	
LREF =	5500.0000 SC 327.7800 (1 2348.0400 (1 .03C0	YHRP		000 IN.XC 0000 IN.YC 0000 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAD = DX =	4.000 .000 5.000 -5.000 10.000	BETAC = ELV-OB = HACH = PHI = DY =	-5.000 3.000 .500 .000
		RUN NO	. 830/ 0	RN/L =	3.29 (	RADIENT INTER	RVAL .	.00/ 12.00			
ALPHAG 10.325 10.312 10.306 10.313 10.331 10.341	OZ -1.343 1.825 6.300 13.860 28.690 43.891 GRADIENT	MACH .60050 .60080 .60070 .60000 .60030 .60040 00002	0X '0.81020 10.60190 10.30090 9.78720 8.77630 7.73970 06726	DY 2.27280 2.28000 2.29610 2.31560 2.34420 2.34160 .00360  RN/L =	BEYA0 -5.21650 -5.21910 -5.22500 -5.24080 -5.24080 00135	00000.0000.0000.0000.0000.0000.00000.0000	ALPHAN 5.82520 5.82640 5.82270 5.81650 5.80760 5.79900 00083	957A -4.95370 -4.94080 -4.94080 -4.94080 -4.95590 -4.93970 .00009	CY .10230 .10600 .10290 .10010 .09860 .09890 00069	CLN 01750 02310 02330 02290 02320 02390 +.00004	CSL .011.0 .01290 .01330 .01340 .01380 .01420 .00009
ALPHAD 14.692 14.668 14.657 14.654 14.657 14.663 14.672	DZ 1.273 4.371 8.918 16.303 31.560 46.389 61.453 GRADIENT	MACH .60040 .60000 .50910 .59910 .59910 00003	0x 9.46210 9.25780 6.95000 8.44290 7.39910 6.38570 5.36270 06704	0Y 2.19680 2.20440 2.21850 2.24340 2.26540 2.27270 2.25720 .00286	8ETA0 -5.19530 -5.19520 -5.20370 -5.21050 -5.21250 -5.21370 00138	0.0000 0.0000 0.0000 0.0000 0.0000	ALPHAH 5.85310 5.84660 5.84580 5.83620 5.82660 5.81290 5.80460 00093	867A -4.95420 -4.94840 -4.94910 -4.94140 -4.94510 -4.94650 -4.94790	CY .09710 .10450 .09990 .09720 .08860 .09640 .09710	CLN 01730 02370 02260 02240 01820 02290 02360 00062	CSL .01180 .01310 .01390 .01400 .01310 .01410 .01420

.00000

59.174

GRADIENT

14.650

-.27960

-.13522

2.28250

.00601

-5.21320

-.00207

CARRIER DATA

(AGN105) | 01 DEC 75 | CA20 747/1 01 51

REFERENCE DATA										PARAMETRIC DATA					
SREF =	5500.0000	SO.FT.	XMRP	= 133	9.9000 IN.XC					ALPHAC =	8.000	BETAC =	-5.000		
LREF =	327.7800		YMRP		.0080 IN.YC					ELV-18 =	.000	ELV-OB =	3.000		
	2348.0400		ZMRP		0.8000 IN.ZC					ELEVON =	5.000	HACH =	.600		
SCALE =	.0300	****								BETAO =	-5.000	PHI =	.000		
JUNIOL -	.0500									OX •	10.000	DY -	.000		
		į	RUN NO.	8417	D RN/L =	3.26	GRA	DIENT INTERV	XL = .	.00/ 12.00					
ALPHAO	DZ	MA	CH	DX	DY	BET	AO	IHS	ALPHAH	BETA	CY	CLN	CSL		
10.296	-3.849		0000	9.3713		-5.19		.00000	9.65170	-5.00970	.09850	01310	.01048		
10.307	020		0070	8.9729		-5.19		.00000	9.65150	-5.00360	.10040	01960	.01200		
10.328	4.578		9940	8.3445		-5.21		.00000	9.65270	-5.00320	.09670	02010	.01250		
10.359	12.050		9930	7.3225		-5.22		.08880	9.65220	-5.01160	.09250	01920	.01280		
10.437	27.168	• -	9920	5.2374		-5.23	710	.00000	9.64590	-5.00940	.09450	02150	.01390		
10.469	41.992		0070	3.2017	0 2.39690	-5.24	060	.00000	9.63880	-4.99480	.09330	02130	.01440		
	GRADIENT		0000	.0000	00000.	.00	080	.00000	.00000	.00000	.00000	.00000	.00000		
		1	RUN NO.	8367	G RN/L =	3.31	GRA	WIENT INTERV	'AL =	00/ 12.00					
ALPHAO	) DZ	НА	CH	DX	DY	BET	AD.	PH1	ALPHAH	BETA	CY	CLN	CSL		
14.545	709	3 .6	9080	7.9149	0 2.17100	-5.16	670	.60200	9.68170	-4 94920	.10600	02060	.01140		
14.535	2.460	.6	0040	7.4907	0 2.19280	-5.17	480	.00000	9.68270	-4.94640	. 10550	02360	.01230		
14.550	7.114	6	0040	6.8649	0 2.22060	-5.18	440	.00000	9.67370	-4.94690	.10070	02290	.01280		
14.571	14.416		0010	5.8715	0 2,24480	-5.19	520	.00000	9.66760	-4.94090	.09480	02080	.01310		
14.610	29.342	.5	9920	3.8284	0 2.27659	-5.20	660	.00000	9.66010	-4.94920	.09160	02010	.01380		
14.638	44.463	3 .6	0030	1.7510	0 2.28759	-5.21	828	.00000	9.65230	-4.94820	.09200	02090	.01430		
									0.000	4. 01.000	00100		ALLEA		

.00000

.00000

9.64650

-.00194

-4.94020

-.00011

.09180

-.00104

-.02110

.00015

.01450

.00011



PAGE 161 TABULATED SOURCE DATA - CARO DATE DI DEC 75 (AGN108) [ Q1 DEC 75 ) CARRIER DATA 747/1 01 51 PARAHETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = -5.000 XMRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. ELV-OB . 3.000 .000 ELV-18 -.0000 IN.YC YHRP LREF = 327.7800 IN. 5.000 HACH .600 ELEVON = ZMRP = 190.8000 IN.ZC BREF = 2348.0400 IN. .000 -5.000 PHI BETAO -SCALE = .0300 10.000 .000 DY DX GRADIENT INTERVAL = .00/ 12.00 RUN NO. 844/ 0 RN/L = 3.30 BETA CY CLN CSL AL PHAH BETAO PHI ΒY HACH DХ ALPHAO DZ .08260 -.02090 .01958 5.84328 -4.97280 .00000 .77820 11.46600 -5.24580 .59920 -.766 10.440 .08360 -.02180.01940 -5.23960 .00000 5.84170 -4.96410 11.45390 .58010 .59970 10.421 2.266 ~.02180 .01870 5.03810 -4.95640 .08460 -5.23900 .00000 11.45320 .59950 .28450 10.417 6.604 .01730 -.02000 .00000 5.82880 -4.96580 .08330 -.22360 11,46500 -5.24390 .59930 14,060 10.423 .01600 .00000 5.82110 -4.98170 .08550 -.01940 -1.26380 11.49370 -5.25780 ,60090 18.442 29.201 .08840 -.02000 .01538 5.8:170 -4.98130 .00000 -2.29630 11.50700 -5.28440 44.256 .59990 10.451 -.08000 -.000t6 -.08983 .00178 .00023 -.06915 -.00016 .00014 .00000 -.00005 GRADIENT (AGN107) ( 01 DEC 75 ) CARRIER DATA 747/1 01 SI CVSD PARAHETRIC DATA REFERENCE DATA ALPHAC . 4,080 BETAC = -5.000 - 1339,9000 IN.XC SRFF = 5500.0000 SQ.FT. XMRP .080 ELV-08 # 3.000 ELY-18 = .0000 IN.YC YHRP LREF = 327.7800 IN. HACH .600 5.000 ELEVON = BREF = 2348.0400 IN. ZHRP 190.8000 IN.ZC PHI .000 BETAO \* -5.000 .0300 SCALE = 10.000 10.000 OY DX .00/ 12.00 GRADIENT INTERVAL = RUN NO. B19/ 0 RN/L = 3.26 CLN CSL ALPHAH BETA CY DY DETAO 1H9 DZ HACH DX **ALPHAO** .01770 -.01950 5.82480 -4.94250 .08310 12.27000 -5.22040 .00000 10.79930 .60000 10.347 -1.294 .01790

-5.21300

-5.21390

-5.21790

-5.22970

-5.23610

-.00020

12.25380

12.25660

12.26900

12.29260

12.30200

.00062

.59960

.59990

.59960

.60000

.59970

.00084

1.624

6.160

13.665

28.609

43.844

GRADIENT

10.332

10.329

10.340

10.361

10.373

10.60860

10.30320

9,79210

B.77050

7.72830

-.06732

5.82770

5.82490

5.81970

5.81120

5.80290

-.00062

.00000

.00000

.00000

.00000

.00000

.00000

-4.94090

-4.94060

-4.94960

-4.95700

-4.94920

.00007

-.02130

-.02150

-.02010

-.02050

-.02060

-.00004

.01760

.01660

.01590

.01510

-.08007

.08530

.00600

.08480

.08750

.08900

.00015

DATE OI DEC 75	TABULATE	ED SOURCE DA	TA - CA	20					FAC	Æ 162
		CA20	747/1	01 51	c	ARRIER DATA		EAGREO	73 ( 91 DE	(C 75 )
REFERENC	E DATA							PARAMETRIC	DATA	
SREF = 5500.0008 SQ. LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300		.0800	IN.YC				ALPHAC = ELV-18 = ELEVON = BETAO = OX =	4.636 .080 5.080 -5.080 10.080	BETAC + ELV-08 = HACH = PHI =	-5.800 3.000 .600 .000
	RUN NO.	820/ 0 R	N/L =	3.25 GRA	DIENT INTER	VAL0	9/ 12.00			
ALPHAO DZ 14.674 2.198 14.656 5.136 14.655 9.779 14.655 17.264 14.666 32.135 14.669 47.232 14.671 62.086 GRADIENT	.59990 9 .59950 9 .59920 6 .60090 6 .60020 7 .59990 6	3.40160 12 3.20660 12 3.69000 12 3.38210 12 7.36720 12 5.32980 12 5.31860 18	DY 14780 15380 15850 117450 119480 121060 122610 100138	BETAO -5.18980 -5.18230 -5.18330 -5.18990 -5.20170 -5.20820 -5.21690 .00064	PH: .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.84790 5.84880 5.84540 5.83750 5.82280 5.81630 5.80290 00037	96TA -4.94690 -4.94700 -4.94090 -4.94980 -4.95850 -4.95850 -4.95850 -00084	CY .08120 .08120 .07940 .07160 .08140 .08880 00025	CLH 02350 02330 02140 01990 01300 01700 02040 .00029	CSL .02238 .02190 .02100 .01910 .01610 .01530 .01526 00017
		CAED	747/1	01 S1	c	ARRIER DATA	ı	(AGN10	8) (O) C	EC 75 )
REFERENC	E DATA							PARAHETRIC	DATA	
SREF = 5500.0000 SQ. LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	* *	.0000	IN.YC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	8.000 000, 5.000 5.000 10.000	BETAC = ELV-08 = MACH = PHI = DY =	5.900 3.000 .000 .000

		RUN NO	. 0/0	RN/L =	3.24 GRA	DIENT INTER	VAL = .	00/ 12.00			
ALPHAO	ĐΖ	HACH	DX	DY	BETAO	PH1	ALPHAH	BETA	CY	CLN	CST
10.102	-2.746	.60020	9.41230	12.35040	-5.23470	.08000	9.67100	-4.96040	.07530	01560	.01354
10.121	.382	.69970	0.99580	12.32340	-5.21950	.00000	9.67210	-4.96600	.07800	~.01790	.91466
10.146	4.894	.60050	8.39130	12.31250	-5.21220	.00000	9.57360	-4.96550	.08000	01960	.01510
10.184	12.419	.59910	7.35250	12.30890	-5.21150	.00000	9.66850	-4.95820	.08140	01820	.01520
10.257	27.611	.59910	5.25330	12.33560	-5.22430	.00000	9.66320	-4.97280	.08510	01910	.01530
10.295	42,408	.60060	3.20660	12.34980	-5,23390	.00000	9.66969	-4.96480	.08690	01930	.01530
	GRADIENT	00004	13620	00242	.00162	.00000	EE000.	.00011	.08044	00016	.C0011



DATE OF DEC 75

TABULATED SOURCE DATA - CA20

DAIF OF DEC	r 10		IED SOONEE	DAIR OIL							
			CA20	747/1	01 \$1	C	ARRIER DATA		(AGN10	B) (01 OE	C 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5!	500.808B <b>SQ</b> .F	T. XHRP	= 1339.9	000 IN.XC				ALPHAC =	B.000	BETAC =	-5.000
	327.7800 IN.	YHRP		000 IN.YC				ELY-IB =	.000	ELV-08 =	3.000
	348.0400 IN.	ZHRP		000 IN.ZC				ELEYON =	5.000	HACH =	.600
	.0300	7110	- 15515					BETAO *	-5.000	PHI =	.000
SCALE =	.0300							DX =	10.000	אם -	10.000
		RUN NO.	0/0	RN/L =	3.24	GRADIENT INTER	RVAL = .0	12.60			
ALPHAO	ΟZ	HACH	DX	DY	BETAO	PHI	ALPHAR	DETA	CY	CLN	CSL
14.529	426	.59900	7.87850	12.21900	-5.1928		9.70100	-4.94840	.07300	02060	.01876
14.532	2.587	.60000	7.47560	12.21350	-5.1844	00000.0	9.69960	-4.94880	.07400	02030	.01840
14.546	7.236	.59950	6.84480	12.20290	-5.1813		9.69590	-4.94130	.07590	02000	.01800
14.574	14.804	.59940	5.81040	12.20650	-5.1837		9.68990	<b>-4.9459</b> 0	.07060	01490	.01690
14.612	29.518	.60010	3.77810	12.23240	-5.1973		9.69030	-4.95430	.07360	01410	.01590
14.638	44.620	.59980	1.70940	12.24440	-5.2857		9.67240	<del>-4</del> .94390	.08110	01690	.01570
14.647	59.279	.60050	31800	12.25690	-5.2130		9.66660	-4.94210	.08540	01880	.01530
	GRADIENT	08011	13586	00228	.0006	7 .00000	00880	.09161	.00041	.00006	00009
			CYS	) <i>747/</i> 1	01 SI	(	CARRIER DATA	١	LAGNED	19) ( 01 D	EC 75 )
			0.1.2.	• • • • • • • • • • • • • • • • • • • •	<b>4.</b> 0.				PARAMETRIO	· nata	
	REFERENC	E DATA							PARAMEIRIC	. DATA	
SREF * 5	500.0000 SQ.	FT. XHRP	<b>= 1339.</b>	9000 IN.XC				ALPHAC =	4.000	BETAC =	-000
	327.7809 IN.	YHRP	<b>#</b> ,i	0000 IN.YC				ELV-1B =	.006	EFA-08 =	3.000
	348.0400 IN.	ZHRP	= 190.	8000 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAD =	-5.000	PHI =	.000
								DX *	10.000	DY =	.000
		RUN NO.	. 831/0	RN/L =	3.27	GRADIENT INTE	RVAL = .	00/ 12.00			
ALPHAO	DZ	HACH	DX	ĐΥ	BETAC	) Рні	ALPHAH	BETA	CY	CLN	CSL
10.322	-1.389	.59950	10.83060	.35760	-5.2401	00000.	5.82770	.01750	01680	.00550	00490
10.306	1.603	.59900	10.63220	.35120	-5.2366	00000. 00	5.82730	.01740	01520	.00670	00440
10.302	6.139	.59980	10.32610	.35200	-5.2339		5.82580	.01920	01080	.00470	00370
10.313	13.778	01000.	9.80690	.35410	-5.2336	00000. 05	5.81650	.02270	00450		00270
10.332	28.819	.60010	8.78170	.36250	-5.2382	00000.	5.80830	.02410	00230	00050	00170
10.343	43.741	.59970	7.76010	.36160	-5.2365		5.80220	. 02420	00280	00060	00100
,,	GRADIENT	.00018	0674 <b>7</b>	B1000.	0006	00000.	00037	.00640	.00097	08044	.00015

		CARD	747/1	01 51	C	ARRIER DATA		(AGN10)	9) ( 0) DEC	75 1
REFERENCE DA	ATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2340.0400 IN. SCALE = .0300			IN.YC			1	ALPHAC = ELV-18 = ELEVON = BETAO = OX =	4.000 .000 5.000 -5.000	BETAC = ELV-OB = HACH = PHI = DY =	.000 3.000 .600 .000
	RUN NO.	834/ C R	N/L =	3.28 GRAD	IENT INTER	VAL = .00	/ 12.00			
14.694 .928 .6 14.676 3.997 .6 14.658 6.486 .6 14.660 16.091 .6 14.656 31.106 .5 14.662 46.023 .6 14.673 69.943 .5	60080 5 60030 6 60010 6 69990 7 60010 6 69930 5	9.50130 9.29690 9.99580 9.47870 7.44890 6.42710	DY .34230 .34420 .35120 .35490 .37940 .37940 .35910 .60121	9ETAO -5.20480 -5.20390 -5.20340 -5.20500 -5.20840 -5.20940 -5.2050	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.65520 5.65320 5.64780 5.63780 5.82070 5.81320 5.80510 00111	9ETA .04520 .04700 .04140 .05340 .05560 .05590 .06210	02050 01570 01130 00410 00100 00320 00490	CLH .00950 .00750 .00540 .00100 00130 00050 .00010	CSL 00610 00520 00430 00290 00160 00110 00080
		CAZD	747/1	01 SI	C	ARRIER DATA		(AGN11)	01 060	75 )
REFERENCE DA	ATA							PARAHETRIC	DATA	
SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	XMRP : YMRP : ZMRP :	.0000	IN.YC			!	ALPHAC = ELV-18 = ELEVON = BETAO = DX =	8.000 .000 5.000 -5.000 10.000	BETAC = ELV-OB = HACH = PHI = DY =	.000 3.000 .600 .000
:	RUN NO.	840/ 0 R	N/L =	3.28 GRAD	ENT INTER	VAL = .00	/ 12.00			
10.306075 .5 10.328 4.516 .5 10.360 12.075 .5	60080 9 69930 6 69980 6 69940 7	9.37460 9.98600 9.36210	0Y .38610 .36130 .34360 .33740 .34810	96TAO -5.26550 -5.24900 -5.23870 -5.23350 -5.23860	PHI .00000 .00000 .00000 .00000	ALPHAN 9.65720 9.65830 9.65690 9.64850 9.64510	05380 .05400 .05400 .06260 .06410 .06470	CY 01430 01130 00810 00430 00350	CLH .00320 .00300 .00200 .00840 00020	00360 00360 00300 00220 00160

GRADIENT

10.467

.59950

.00000

3.20180

.00000

.35070

.00000

٠.

-5.23790

.00000

.00000

.00000

9.64320

.00000

.06490

.00000

-.00380

.00000

-.00030

.00000

-.00100

.00000

PAGE 185 TABULATED SOURCE DATA - CARB DATE OF DEC 75 CARO 747/1 01 51 CARRIER DATA (AGH1101 | 01 DEC 75 ) REFERENCE DATA PARAMETRIC DATA ALPHAC = 8.009 BETAC = .000 SREF \* 5500.0000 SQ.FT. XMRP = 1339.9880 IN.XC 3.000 ELV-IB = .000 ELV-OB = LREF = 327.7800 IN. YMRP .0000 IN.YC ZMRP = 190.8000 IN.ZC ELEVON -5.000 HACH -609 BREF = 2348.0400 IN. BETAG . -5.000 PHI .000 SCALE = .0300 10.000 DY .000 DX RUN NO. 837/ 0 RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00 BETAO ALPHAH BETA CY CLN CSL PHI **ALPHAO** DZ HACH DX DY .00630 -.00948 9.68140 .00420 -.01770 .59980 0.10010 .38570 -5.22010 .00000 14.301 -2.363 9.68610 7.96770 .38570 -5.21720 .00000 .00410 -.01750 .00630 -.00448 -1.012 .60010 14.539 -5.21070 .00000 9.68190 .00420 -.01490 .00520 -.80410 .37440 14,492 1.816 .60010 7.59820 .37390 -.01490 .00620 -.00400 14.537 2.114 .60080 7,55200 -5.21060 .00000 9.68180 .00420 .01540 -.80730 .00250 -.00340 6.95140 .36650 -5.20600 .00000 9.67480 6.572 .60090 14.547 -5.20440 .00000 9,67030 .01810 -.00160 -.08040 -.00260 5.93050 .36460 14.576 14.073 .59990 3,86470 .37730 -5.20900 .00000 9.66010 .01160 -.00080 -.00160 -.00190 29.194 .60010 14.612 9.65280 .01810 -.00400 .00000 -.00148 1.79770 .37490 -5,20970 .00000 44.237 .60050 14.641 .00000 9.64550 .01740 -.00640 .00080 -.00115 14.651 58.932 .59980 -.22740 .37670 -5.21130 .00000 -.00153 .00242 .00164 -.00080 .00014 GRADIENT .00010 -.13545 -.00165 .00101 CARRIER DATA (AGNIIII | OI DEC 75 ) 747/1 01 51 CV50 REFERENCE DATA PARAMETRIC DATA ALPHAC = 4.000 BETAC \* .500 SREF \* 5500.0000 SQ.FT. XHRP ≈ 1339.9000 IN.XC ELV-IB = .000 ELY-08 = 3.008 327.7800 IN. YMRP .000B IN.YC LREF = 190.8000 IN.ZC ELEVON = 5.000 HACH .600 ZHRP = BREF = 2348.0400 [N. BETAO = -5.000 .000 PHI SCALE = .0300 DX .000 DY 10.000 3.33 GRADIENT INTERVAL = .00/ 12.00 RUN NO. 843/ 0 RN/L = ALPHAH BETA CY CLN CSL **ALPHAO** DZ MACH DX DY BETAO PHI .00000 5.84880 .06030 -.01740 -.00596 .00538 .60040 .00510 10.38400 -5.24130 10.446 -.843 .00450 -.00370 10.39070 -5.23930 .00000 5.84600 .65920 -.01700 .59950 .59930 10.429 2.180 -.01880 -.00010 .00318 6.659 .59940 .29520 10.38630 -5.23920 .00000 5.84290 .06270 10.422 -.02140 -.22540 10.38990 -5.24230 .00000 5.83930 .05110 .00410 .00160 .59930 10.430 14.218 -.01750 .00470 .00048 -1.25240 10.40340 -5.25400 .00000 5.82280 .05830 10.443 29.284 .69070 -2.28200 10.41690 -5.26110 .00080 5.81300 .05180 -.01290 .00330 .00016 10.450 44.292 .60010

-.06791

-.00002

GRADIENT

-.00098

.00002

-.00114

.00088

.00100

-.00040

.00089

-.00033

14,669

61.681

GRADIENT

.59950

.00002

5.35330

-.06804

10.37888

.00172

-5.21170

.00024

.00000

.00000

5.80840

-.00090

.02060

-.00314

-.01350

-.00057

.00360

.00110

.00030

-.00030

DATE 01 DEC 75

TABULATED SOURCE DATA - CA20

										· PA	
			CYS	0 747/1	01 S1	•	CARRIER DAT	A	(AGNL)	13) (0) 0	EC 75 1
	REFERENC	E DATA							PARAMETR10	C DATA	
SREF -	5500.0000 SQ.	FT. XHRP	= 1339.5	9000 IN.XC				ALPHAC =	8.000	BETAC -	.000
LREF =	327.7800 IN.	YHRP		0000 IN.YC				ELY-18 =	.000	ELV-OB =	3.000
BREF =	2348.0400 IN.	ZHRP	= 190.6	9000 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAD =	-5.000	PHI .	.000
								Ox =	.000	DY =	10.000
		RUN NO.	. 846/ 0	RN/L =	3.27 GRA	DIENT INTER	. = JAVF	00.5, 100			
ALPHAO	DZ	HACH	DX	DY	BETAD	PHI	ALPHAH	BETA	CY	CLN	CSL
14.663	234	.59920	-2.08110	10.45250	-5.22980	.00000	9.71210	.05500	02980	00640	.00530
14.664	2.831	.59940	-2.49430	10.44140	-5.22280	.00000	9.70900	.05080	03069	00190	.00570
14.673	7.169	.59980	-3.08220	10.42750	<del>-</del> 5.21910	.00000	9.70290	05560	02930	.00120	.00440
14.695	14.825	.60010	-4.12640	10.41340	-5.21700	.00000	9.69360	.04350	03040	.00800	.60270
14.718	29.684	.59910	-6.18250	10.41430	-5.22390	.00000	9.68120	.04930	02650	.00820	.00080
14.736	44.793	.60010	-8.24790	10.42500	-5.23080	.00000	9.67210	.05230	01840	.00500	.00020
14.745	59.569	.60000 -	10.29910	10.44120	-5.24020	.00000	9.66870	.05370	01430	.00370	.00000
	GRADIENT	.00009	13553	00320	.00085	00000					-
	OUDIEN	.00003	13333		.00000	.00800	80141	.00111	.00030	.00071	00030
	UNDIEN	. 00003	CA20		01 SI		UUI41 ARRIER DATA		CAGNI 1		00030 EC 75 )
	REFERENCE									4) (O1 D	
	REFERENCE 5500.0000 SQ.F	C DATA FT. XHRP	CA20 = 1339.9	9000 IN.XC				ALPHAC =	(AGNL1 PARAHETRIC 8.000	4) (O1 D	00030 EC 75 )
REF =	REFERENCE 5500.0000 SQ.F 327.7800 IN.	C DATA T. XHEP YHRP	CA20 = 1339.9	9000 IN.XC				ALPHAC = ELV-IB =	CAGNET PARAHETRIC B.000 .000	4) ( 01 De	EC 75 )
REF = 6	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN.	C DATA FT. XHRP	CA20 = 1339.9	9000 IN.XC				ALPHAC = ELV-IB = ELEVON =	(AGNL) PARAHETRIC 8.000 .000 5.000	4) ( 01 De Data Betac =	.000
REF = 6	REFERENCE 5500.0000 SQ.F 327.7800 IN.	C DATA T. XHEP YHRP	CA20 = 1339.9	9000 IN.XC				ALPHAC = ELV-1B = ELEVON = BETAO =	CAGNET PARAHETRIC B.000 .000	9) ( 01 DE DATA BETAC = ELV-OB =	.000 3.000
REF =	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN.	C DATA T. XHEP YHRP	CA20 = 1339.9	9000 IN.XC				ALPHAC = ELV-IB = ELEVON =	(AGNL) PARAHETRIC 8.000 .000 5.000	93 ( 01 DE DATA BETAC = ELY-OB = HACH =	.000 3.000 .600
REF = 2	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN.	C DATA T. XHEP YHRP	- 1339.9 - 0.0	9000 IN.XC	01 SI		ARRIER DATA	ALPHAC = ELV-1B = ELEVON = BETAO =	CAGNET PARAHETRIC 6.000 .000 5.000 -5.000	93 ( 01 DE DATA  BETAC = ELY-OB = HACH = PHI =	.000 3.000 .600
REF = 6	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN.	C DATA FT. XHRP YHRP ZHRP	- 1339.9 - 0.0	747/1 1900 IN.XC 1900 IN.YC	01 SI	c	ARRIER DATA	ALPHAC = ELV-IB = ELEVON = BETAO = OX =	6.000 8.000 .000 5.000 -5.000 10.000	9) ( 01 De DATA  BETAC = ELV-OB = HACH = PHI = BY =	.000 3.000 .600 .000
REF = a CALE = ALPHAO 10.123	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300	E DATA  TT. XHRP YHRP ZHRP  RUN NO.	CA20 = 1339,9 = .0 = 190.8	747/1 19900 IN.XC 19900 IN.YC 19900 IN.ZC	01 SI 3.23 GRAD	OZENT INTER	CARRIER DATA	ALPHAC = ELV-IB = ELEVON = BETAO = OX =	CY	DATA  BETAC = ELV-OB = HACH = PHI = DY =	.000 3.000 .600 .000 10.000
REF # 6 CALE #  ALPHAO 10.123	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300 DZ -2.709 .522	E DATA  TT. XHEP YHRP ZHRP  RUN NO. HACH	CA20 = 1339,9 = .0 = 190.8	747/1 1990 IN.XC 1900 IN.YC 1900 IN.ZC RN/L =	O1 S1  3.23 GRAD	DIENT INTER PHI	CARRIER DATA  VAL = .0  ALPHAN	ALPHAC = ELV-1B = ELEVON = BETAO = OX =	6.000 8.000 .000 5.000 -5.000 10.000	93 ( 01 DE DATA  BETAC = ELY-08 = HACH = PHI = BY = CLN00450	.000 3.000 .600 .000 10.000
REF # 6 CALE #  ALPHAO 10.123 10.130 10.153	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300 DZ -2.709 .522 4.882	E DATA  FT. XHRP YHRP ZHRP  RUN NO. HACH .59950	CA20 - 1339.90 - 190.8  827/ 0  0x 9.42810	747/1 2000 IN.XC 2000 IN.YC 2000 IN.ZC 2000 IN.ZC 2000 IN.ZC 2000 IN.ZC	3.23 GRAD BETAO -5.22610	C DIENT INTER PHI OOGOO	VAL = .0 ALPHAH 9.67390	ALPHAC = ELV-IB = ELEVON = BETAO = OX = O/ 12.00  BETA .0845D	CAGNETAL CONTROL CAGNETAL CAGN	BETAC = ELY-OB = HACH = PHI = DY = CLN0045000130	.000 3.000 .600 .000 10.000
REF = 6 CALE = 6 ALPHAO 10.123 10.130 10.153 10.189	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300 DZ -2.709 .522 4.882 12.431	C DATA  FT. XHRP YHRP ZHRP  RUN NO.  MACH .59950 .59900	CA20 = 1339.9 = .0 = 190.8  827/ 0  0x 9.42810 8.99410	000 IN.XC 0000 IN.YC 0000 IN.ZC 0000 IN.ZC PAYL = DY 10.35950 10.33750	3.23 GRAD BETAO -5.22610 -5.22180	DIENT INTER PHI .00000 .00000	VAL = .0 ALPHAH 9.67390 9.67420	ALPHAC = ELV-IB = ELEVON = BETAO = OX = OX = OX = OF TA	CAGNETA  PARAHETRIC  8.000 .000 5.000 -5.000 10.000  CY0167001830	DATA  BETAC = ELY-OB = HACH = PHI = BY =  CLN0045000130	.008 3.000 .600 .000 10.000 CSL .00040 .00030
ALPHAO 10.123 10.130 10.153 10.189 10.262	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300 DZ -2.709 .522 4.882 12.431 27.432	T. XHRP YHRP ZHRP  RUN NO.  HACH .59950 .59920 .59980	CA20 - 1339.90 - 190.8 - 190.8 - 190.8 - 190.8 - 190.8 - 190.8	000 IN.XC 0000 IN.XC 0000 IN.XC 0000 IN.ZC RN/L = DY 10.35950 10.33750 10.32390	3.23 GRAD BETAO -5.22610 -5.22180 -5.21740	DIENT INTER PHI .00000 .00000	VAL = .0 ALPHAH 9.67390 9.67420 9.67530	ALPHAC = ELV-IB = ELEVON = BETAO = OX = O/ 12.00 BETA .0845B .0969B .09450	CY0167001910	DATA  BETAC = ELY-OB = HACH = PHI = BY =  CLN0045000130 .00120 .00450	.000 3.000 .000 .000 10.000 CSL .00040 .00010 .00010
ALPHAO 10.123 10.130 10.153 10.189	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300 DZ -2.709 .522 4.882 12.431	T. XHRP YHRP ZHRP  RUN NO.  MACH .59950 .59920 .60030	CA20 = 1339.9 = .0 = 190.8  827/ 0  0x 9.42810 8.99410 8.39770 7.36470	747/1 2000 IN.XC 2000 IN.XC 2000 IN.ZC 2000	3.23 GRAD  BETAO  -5.22610  -5.22180  -5.21740  -5.21670	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 9.67390 9.67420 9.67190	ALPHAC = ELV-IB = ELEVON = BETAO = OX = OX 12.00  BETA .08450 .09450 .09450 .07600	CY016700191002000020000200002000	DATA  BETAC = ELY-OB = HACH = PHI = BY =  CLN0045000130	.008 3.000 .600 .000 10.000 CSL .00040 .00030

		CAR	747/1	01 SI		CARRIER (	DATA	(AGN)	14) ( 0) (	EC 75 1	
	REFER	ENCE DATA							PARAHETRI	C DATA	
SREF = LREF = BREF = SCALE =	5500.0000 327.7800 2348.0400 .0300	IN. YHRP	0	0000 IN.XC 0000 IN.YC 0000 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = OX =	8.000 .000 5.000 -5.000 10.000	BETAC = ELV-OB = HACH = PHI = DY =	.000 3.000 .500 .000
		RUN NO.	824/ 0	RM/L =	3.23	GRADIENT	INTERVAL =	.00/ 12.00			
ALPHA 14.536 14.541 14.551 14.577 14.616 14.642 14.647	0 DZ 449 2.724 7.181 14.625 29.549 44.653 59.369 GRADIENT	HACH .59930 .59980 .59920 .60030 .59900 .60080 .59980	DX 7.89880 7.47220 6.86660 5.85320 3.80340 1.72210 31530 13568	DY 10.38610 10.37240 10.36200 10.35510 10.35630 10.36940 10.37680 00233	8ETAI -5.1921 -5.1891 -5.1891 -5.1961 -5.2051 -5.211	30 .00 80 .00 10 .00 80 .00 80 .00 80 .00	000 9.7027 000 9.6991 000 9.6969 000 9.6878 000 9.6794 000 9.6722	0 .02410 0 .0350 0 .0259 0 .01980 0 .01950 0 .02160 0 .02260	CY0219002540027300284002290017000138000043	CLN 00550 00150 .00250 .00650 .00690 .00470 .00370	CSL .00430 .00350 .00278 .00160 .00050 .00010 00010
	**********		CARD	747/1	01 SI		CARRIER D	ATA	(AGN11	5) (01 D	EC 75 1
		INCE DATA							PARAMETRIC	DATA	
LREF =	5500.0000 9 327.7800   2348.0400   .0300	N. YHRP	00	ODO IN.YC				ALPHAC = ELEY-18 = BETAO = OX =	4.000 000 5.000 5.000 10.000	BETAC = ELY-DB = MACH = PHI = DY =	5.000 3.000 .600 .000
		AUN NO.	835/ 0	RN/L =	3.26	ORADIENT !	INTERVAL =	.00/ 12.00			
ALPHA0 10.325 10.310 10.308 10.316 10.331	DZ -1.459 1.577 6.160 13.701 28.714 43.808 GRADIENT	.59950   .60020   .60050 .60090	DX 10.80560 10.60980 10.30360 9.79660 8.77550 7.74110 06682	DY -1.58900 -1.60360 -1.62150 -1.63320 -1.63810 -1.64140 00391	BETA0 -5.2476 -5.2458 -5.2490 -5.2349 -5.2343	100. 00 100. 01 100. 01 100. 01	000 5.82130 000 5.81960 000 5.81300 000 5.80800	5.05090 5.04970 5.05130 5.04780 5.05230 5.04990	CY 13150 12590 11900 10710 09770 10300 .00172	CLH .02430 .03050 .02880 .02420 .01940 .02200	CSL 02030 02050 01990 01840 01530 01580



DATE O1 DEC 75

TABULATED SOURCE DATA - CA20

DYIE DI DE	L 13	INDOCA	150 300100	Dillin Oil							
			CY50	747/1	01 51	c	ARRIER DATA		(AGNI 1	5) ( Q1 DE	C 75 1
	REFERENCE	E DATA							PARAHETRIC	DATA	
								ALPHAC =	4.030	BETAC =	5.000
	500.080 <b>0 SQ.</b> f		• • •	000 IN.XC				ELV-18 =	.000	ELY-08 =	3.000
	327.7800 IN.	YHRP		000 IN.YC				ELEVON =	5.000	HACH =	.600
	348.0400 IN.	ZHRP	<b>= 190.8</b>	000 IN.ZC				BETAO =	-5.000	PHI =	.080
SCALE =	.0300							DX =	10.000	DY =	.000
	•							DA -	10.000	<b>.</b> -	
		RUN NO.	833/ 0	RN/L =	3.28 GR	LOIENT INTER	YAL0	12.00			
ALPHAO	DZ	HACH	ÐΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLH	CSL
14.703	.481	.59990	9.50420	-1.51150	-5.21160	.00000	5.83950	5.03250	13350	.03210	02170
14.674	3.583	.59940	9.30230	-1.49580	-5.21110	.00000	5.84040	5.03940	13040	.03490	02190
14,669	7.765	.60000	9.02180	-1.51040	-5.21030	.00000	5.84090	5.04940	12010	.03050	02120
14.666	15.725	.60050	8.48640	-1.51760	-5.20820	.00000	5.83410	5.04680	10380	.02300	01950
14.685	30.510	.59960	7.48080	-1.52620	-5.20760	.00000	5.82210	5.06330	09040	.01580	01640
14.670	45.572	.59900	6.45060	-1.52710	-5.20570	.00000	5.81350	5.04380	09980	.02030	01580
14.674	60.497	.59960	5,42680	-1.53350	-5.20860	.00000	5.80710	5,05660	10590	.02320	01570
******	GRADIENT	.00002	05628	00005	.00018	.00000	.60019	.00234	.00187	00025	.00007
			CAZO	747/1	01 51	C	ARRIER DATA	<b>L</b>	(AGNI I	51 (OLD	EC 75 )
	REFERENC	E DATA							PARAHETRIC	DATA	
		wwo.	= 1339.9	000 IN.XC				ALPHAC *	8.000	BETAC =	5.000
	5500.0000 SQ.	FT. XHAP YHRP		1000 IN.YC				ELV-18 =	.000	ELV-OB =	3.000
LREF =	327.7800 IN.	2HRP		0000 IN.ZC				ELEVON =	5.000	HACH =	.600
	2348.0408 IN.	ZINI	- 150.0	1000 111.20				BETAO =	-5.000	PHI =	-000
SCALE =	.0300							DX =	10.000	DY =	.080
		RUN NO.	. 839/ 0	RN/L =	3.26 GR	ADIENT INTE	I. = JAYS	00/ 12.00			
ALPHAO	ĐZ	HACH	ВX	DY	BETAO	PHI	ALPHAN	BETA	CY	CLH	CST
10.294	-2.738	.59960	9.31160	-1.55500	-5.28470	.00000	9.65420	5.05110	12810	.02370	01493
10.306	.352	.60000	8.90260	-1.59040	-5.27000	.00000	9.65590	5.04940	12150	.02530	01520
10.320	3.098	.59990	6.53200	-1.61720	-5.25970	.00000	9.65370	5.05760	11630	.02480	01520
18.367	12.333	.60060	7.27900	-1.64760	-5.24150	.00000	9.65120	5.04550	10290	.02110	01420
10.428	27.414	.59940	5.21140	-1.66970	-5.23730	.00000	9.64660	5.06340	09690	.01640	01280
10.473	42.599	.60060	3.11550	-1.66980	-5.23650	.00000	9.64210	5.05310	10280	.02130	01240
	GRADIENT	00084	13496	00976	.00375	.00000	3008B	.00299	.00189	0001B	-00800
	ORKOTEN										

GRADIENT

			CASO	747/1	01 SI	•	CARRIER DATA	A	(AGN11	61 (01 D	EC 75 )
	REFERE	CE DATA							PARAMETRIC	DATA	
SPEF =	5500.0800 SC	i.ft. XHRP	= 1339.9	000 IN.XC				ALPHAC =	8.000	BETAC =	5.000
LREF =	327.7800 IN	I. YHRP		0000 IN.YC				ELV-IB =	.000	ELY-OB =	3.000
BREF =	2348.0400 11	1. ZMRP	= 190.6	9000 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAO =	-5.000	PH1 =	.000
					·			DX =	10.000	DY =	.000
		RUN NO.	838/ 0	RN/L =	3.26 6	RADIENT INTER	. = JAVF	12.00			
ALPHAO	DZ	HACH	OX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
14.538	-1.194	.59960	7.95930	-1.44850	-5.24490	.00000	9.67820	5.84490	13500	.02980	01690
14.540	1.941	.59950	7.54570	-1.48380	-5.23400	.00000	9,67800	5.64450	12710	.03010	01690
14.553	6.274	.59940	6.96660	-1.51170	-5.22180	.00000	9.67420	5.04780	11450	.02650	01620
14.577	13.736	.59950	5.95710	-1.55280	-5.21120	.00000	9.67180	5.06930	09880	.02000	81510
14.613	28.832	.5996D	3,90000	-1.56200	-5.20860	.00000	9.66040	5.65950	0884 <b>0</b>	.01400	01280
14.640	43.865	.60040	1.83390	-1.57120	<del>-</del> 5.20720	•	9.55590	5.06190	09930	.01990	01260
14.651	58.748	.60080	21820	-1.57450	-5,20980	.00000	9.64970	5.06760	10430	.02220	01230
	GRADIENT	00002	13365	00644	.00282	.00000	00088	.00076	.00291	00093	a:000.
			CARO	747/1	01 51	C	CARRIER DATA		(AGN11	7) (O1 D6	EC 75 1
	REFEREN	CE DATA							PARAHETRIC	DATA	
SREF = !	5500.0000 SO	.FT. XMRP	= 1339.9	ODD IN.XC				ALPHAC =	4.000	BETAC #	5.000
LREF #	327.7800 IN	. YHRP	0	000 IN.YC				ELV-IB =	.000	ELY-08 =	3.000
BREF = 2	2348.0400 IN	i. ZMRP	- 190.8	DOD IN.ZC	•			ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAO =	-5.000	PHI =	.000
								DX =	.000	DY =	10.000
		RUN NO.	845/ 0	RN/L =	3.29 G	RADIENT INTER	RVAL = .0	12.00			
ALPHAO	DZ	MACH	DХ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.498	906	.60040	.78870	9.22240	-5.21280	.00000	5.84530	5.04420	12950	.01980	01050
10.467	2.237	.59980	.57730	9.23320	-5.22240	.00000	5.84150	5.04890	12790	.02300	01180
10.441	6.513	.59920	.28940	9.22990	-5.23010	.00000	5.84000	5.05350	12750	.02640	01300
10.439	14.233	.60090	23340	008ES.Ė	-5.23900	.08000	5.82980	5.03800	12150	.02630	01370
10.446	29.130		-1.25300	9.24510	-5.24980	.00000	5.81990	5.03760	11760	.02670	01450
10.455	44.219	.59980	<del>-</del> 2.29460	9.25700	<del>-</del> 5.25780	.00000	5.81540	5.03750	11530	.02690	01480

-.00180

.00000

-.00035

.0010B

.00007

.00080

-.00028

DATE DI DEC 75

14.717

14.688

[4.674

14.665

14.668

14.673

14.668

1.874

4.769

9.382

16.975

31.950

48.749

61.783

GRADIENT

TABULATED SOURCE DATA - CA20

8.37710

8.38120

0.38660

B.39530

8.40610

8.41540

.00093

9.22800

8.91570

8.40160

7.37290

6.36880

5.33720

-.06721

.59960

.59990

.59998

.59900

.60820

.60020

.00003

-5,17940

-5.18320

-5.18790

-5,19670

-5.20180

-5.20920

-.00069

.00000

.00000

.00000

.00000

.00000

.00000

.00000

5.85190

5.84940

5.03980

5.83260

5.B1470

5.80510

-.00026

CARRIER DATA (AON118) | 01 DEC 75 1 CA20 747/1 OI SI PARAHETRIC DATA REFERENCE DATA 4.000 BETAC = 5.000 ALPHAC = XHRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. 3.008 ELV-IB = .000 ELV-08 = .0000 IN.YC YHRP LREF = 327.7800 IN. ELEVON = 5.000 HACH .608 BREF = 2348.0400 IN. ZHAP = 190.8000 IN.2C .000 BETAO --5.000 PHI SCALE = .0300 10.000 DY 10.000 GRADIENT INTERVAL . RUN NO. 817/ 0 RN/L = 3.29 :00/ 12.00 CSL CLX PHI ALPHAH BETA CY BETAO **ALPHAO** DΖ HACH ĐΧ DY 5.82810 5.09010 -.12600 .01990 -.01220 8.27130 -5.19700 .00000 .60050 10.80850 10.387 -1.428 5.07890 -.12630 .02350 -.01320 -5.20120 .00000 5.83120 10.60430 0.27890 .59990 10.368 1.603 -.01410 -.12750 .02760 -5.20600 .00000 5.82650 5.09060 .59960 10.29750 0.27540 6.192 10.354 -.01450 .00000 5.82320 5.0B370 -.12110 .02660 0.28270 -5.21310 .60860 9.79330 10.352 13.627 .02690 -.015005.08340 -.11750.00000 5.81190 B.75340 0.29080 -5.22320 10.368 28.854 .60000 -.01510 5.09390 -.11480 .02640 8.29670 -5.22860 .00000 5.80650 .59950 7.72900 10.375 43.802 -.00102 .00255 -.00028 .00089 -.00020 -.00105 .88000 -.06685 -.00076 GRADIENT -.00007 RUN NO. 822/ 0 RN/L = 3,25 GRADIENT INTERVAL = .00/ 12.00 CSL CLN ALPHAH BETA CY **BETAO** PHI MACH DX DY DZ ALPHAO 5.08930 -.13040 .02020 -.01120 .00000 5.85110 9.42000 0.37420 -5.17810 .59970

5.09400

5.09720

5.08990

5.09040

5.08240

5.09099

.00102

-.12960

-.13200

-.12580

-.11990

-.11830

-.11590

-.08024

.02360

.02850

.02890

.02760

.02790

.02710

.00110

-.01200

-.01270

-.01350

-.01420

-.01470

-.01480

-.05020

(AGN119) ( 01 DEC 75 1

	REFERENCE DATA							PARAHETRIC	DATA		
SREF =	5500.8000	SQ.FT.	XIMP	-	1339.9000	IN.XC	ALPHAC =	8.000	BETAC	•	5.000
lref =	327.7800	IN.	YHRP	=	.0000	IN.YC	ELV-1B =	.000	ELY-08		3.000
BREF =	2340.0400	IN.	ZMRP	•	190.8000	IN.ZC	ELEYON =	5.000	HACH	-	.600
SCALE =	.0300						BETAO =	-5.000	PHI		.000

SCALE =	.0300							BETAO =	-5.000	PHI .	.000
-	,,,,,,,							DX =	10.000	DY =	10.000
		RUN NO.	828/ 0	RN/L =	3.24 GF	RADIENT INTER	YAL = .	00/ 12.00			
ALPHAO	DZ	MACH	ΟX	DY	DETAG	PH1	ALPHAH	eeta	CY	CLN	CSL
10.232	-3.158	.59960	9.45520	8.21890	-5.17890	.00000	9.67640	5.11290	12310	.01570	00848
10.221	170	.59930	9.04460	8.24750	-5.19470	.00000	9.67420	5.10090	12290	.02010	00970
10.228	4.274	.60060	8.43850	8.25130	-5.20440	.00000	9.67370	5.10550	12220	.02330	01040
10.086	8.076	.60080	0.00330	8.24320	-5.21030	.08080	9.67500	5.10510	11830	.02360	01090
10.098	10.521	.68030	7.61260	8.24420	-5.21!70	.00000	9.67450	5.09750	11630	.02350	01090
10.159	26.257	.59990	5.50150	8.24330	-5,22100	.00000	9.66690	5.09620	11340	.02490	01150
10.305	41.630	.59980	3.31110	9.25650	-5.22860	.00000	9.65440	5.09690	11070	.02420	01160
	GRADIENT	08084	12370	00113	00112	.00000	.08013	80114	.00090	.00003	00009
		RUN NO.	825/ 0	RN/L =	3.22 GR	ADIENT INTER	VAL	00/ 12.00			
ALPHAD	DZ	MACH	DX	ÐY	BETAD	PHI	ALPHAH	AT38	CY	CLN	CSL.
14.586	647	.59910	7.90360	8.36630	-5.17870	.00000	9.69920	5.10990	13050	.01840	0091 <b>0</b>
14.574	2.283	.5990B	7.58930	8.39739	-5.18080	.00000	9.69540	5.69010	13130	.02290	00980
14.572	6.095	.60840	6.88610	0.37630	-5.18510	.00000	9.69580	5.10230	13030	.02640	01010
14.589	14.523	.59960	5.64870	8.36390	-5.18580	.00000	9.69090	5.10280	12250	.02570	01050
14.622	29.445	.59990	3.60460	8.35910	-5.19440	.00000	9.69180	5.09570	11580	.02520	01090
14.641	44.416	.59990	1.74040	8.36180	-5.20120	.00000	9.67480	5.10310	11410	.02560	01120
14.651	59.882	.69020	31430	8.37110	-5.20880	.00000	9.65940	5.10360	11220	.02510	0113B
	GRADIENT	.00030	13524	00239	00893	.00000	08813	.00265	.00022	-00075	00007

DATE OI DEC 75

TABULATED SOURCE DATA - CARD

PAGE 173

			CYS	0 747/1	01 SI	(	CARRIER DAT	٨	CAGHIZ	:0)	EC 75 )
	REFEREN	CE DATA							PARAHETRIC	DATA	
	5500.0000 SQ			9000 IN.XC				ALPHAC =	4.000	BETAC .	-5.000
LREF .	327.7800 IN		-	0000 IN.YC				ELV-1B =	.000	ETA-08 =	.000
	2348.0400 IN	. ZHAP	9 - 190.	BDD0 [N.ZC				ELEYON .	5.000	HACH =	.600
SCALE =	.0300							BETAD =	-5.000	PHI =	.609
								DX =	.000	DX =	10.000
		RUN NO	. 765/ 0	RN/L =	3.26 G	RADIENT INTER	RYAL = .	00/ 12.00			
ALPHAO	DZ	HACH	ÐΧ	צם	BETAD	РНІ	ALPHAH	BETA	CY	CLN	¢ar
10.515	-1.996	.60080	.84350	11.45910	-5.24180	.00000	5.87130	-4.98110	.08040	02070	.01948
10,489	1.101	.59950	.64030	11.44630	-5.23360	.00000	5.86780	-4.98020	.08210	02180	.01926
10.487	5.844	.60040	.31530	11.45310	-5.23550	.00000	5.86370	-4.98810	.08319	02150	.01950
10.491	13.003	.59970	17740	11.46190	-5.23990	.00000	5.85710	-4.98220	.08140	~.01950	.01710
10.505	28.256	*60050	-1.23080	11.48620	-5.25290	.08008	5.84900	-4.99070	.08330	01860	.01560
10.512	43.053	.60090	-2.24980	11.50370	-5.26170	.00000	5.83960	-4.99000	.08700	01940	.01460
10.515	46.935	.59980	-2.51800	11.50600	-5.28380	.00000	5.83580	-4.99180	.08010	02000	.01470
	GRADIENT	.00019	06851	.00143	00040	.00000	00086	00167	.00021	.00006	00015
		RUN NO	, 769/ 0	RN/L =	3.24 G	RADIENT INTER	IVAL = .	00/ 12.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAR	BETA	CY	CLN	CSL
14.617	.070	.68020	31490	11.36860	-5.21580	.00000	5.90170	-4.98100	.08830	02110	.02410
14.790	3.179	.60040	52360	11.37120	-5.20890	.00000	5.89430	-4.97990	.07290	02210	.02350
14.781	7.513	.60080	82800	11.38430	-5.21010	.08800	5.89240	<del>-4</del> .98970	.07340	02090	.02250
14.780	9.056	.60090	93650	11.38410	-5.21080	.00000	5.89280	-4.98120	.07350	02960	.02240
14.776	15.044	.59940	-1.35410	11.39230	-5.21500	.00000	5.86410	-4.98340	.07200	01830	.02030
14.778	30.013	.59960	-2.39160	11.42080	-5.22890	.00000	5.98850	-4.99850	.05470	01010	.01580
14.777	44.971	.60010	-3.42780	11.43380	-5.23760	.00000	5.65800	-4.98640	.07680	01500	.01500
14.777	60.036	.60070	-4.47510	11.45160	-5.24820	.00000	5.85010	-4.98230	.08650	01940	.01480
	GRADIENT	.00008	06931	.00197	.00845	.00080	00094	00845	.00052	.00009	00019

ORIGINAL: PAGE IS OF POOR QUALITY .....

10.474

10.480

26.756

41.500

46.724

**GRADIENT** 

+4.78130

-6.83220

-7.56360

-.13828

.59940

.60020

.59970

.00000

11.52080

11.53920

11.54730

-.00016

-5.24770

-5.25820

-5.26270

.08004

		RUN N	io. 767/ 0	RN/L =	3.24 GRA	DIENT INTER	VAL = .1	00/ 12.00			
ALPHAO	DŽ	HACH	ĐΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	cs.
14.690	-1.559	.60050	-1.92420	11.43940	-5.22370	.00000	9.78050	-4.97870	.06440	02120	.02976
14.680	1.597	.60010	-2.35280	11.42690	-5.20980	.00000	9.77830	-4.99750	.06580	02010	0:050
14.688	5.926	.59990	-2.94660	11.41730	-5.26470	.00000	9.77290	-4.987BO	.06930	01970	.01930
14.707	13.492	.60040	-3.99700	11.41840	-5.20750	.00000	9.75940	-4.98580	.06340	01350	.01780
14.735	29.283	.59950	-6.03700	11.44460	-5.22150	.00000	9,74920	-4.98790	.06650	01110	.01579
14.751	43.438	.59960	-8.14790	11.46360	-5.23100	.00000	9.74110	<del>-4</del> .98370	.07750	01560	.01538
14.755	58.184	.60040	-10.20510	11.48640	-5.24360	.00000	9.73190	-4.9B89D	.08360	01820	.01520
	GRADIENT	00005	13716	00222	.00118	.00000	00125	00087	.00081	.00009	00025

.00000

.00000

.00000

.00800

9.73480

9.72930

9.72760

-.00055

-4.98150

-4.97380

-4.98040

-.00016

.09160

.08460

.09600

800008

-.01790

-.01860

-.01910

.00017

.01529

.01500

.01500

-.00003

•

\_\_\_\_

			CVS	747/1	01 \$1	c	ARRIER DATA	,	IAGNIE	2) (9) DE	EC 75 )
	REFERENC	E DATA							PARAMETRIC	DATA	
SREF = !	5500.0000 <b>50.</b>	FT. XHRP	= 1339.9	9000 IN.XC				ALPHAC =	4.080	BETAC =	.000
LREF =	327.7800 IN.		. =	000 IN.YC				ELV-IB =	.080	ELV-08 =	.000
-	2348.0400 IN.	ZHRP	= 190.8	888 IN.ZC				ELEVON *	5.080	MACH =	.600
SCALE =	.0300							BETAO =	-5.000	PHI =	.000
								DX =	.080	DY =	10.000
		RUN NO	. 761/ 0	RN/L -	3.32 G	RADIENT INTER	RVAL	00/ 12.00			
ALPHA0	OZ	HACH	DΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.533	-1.760	.60020	.83720	10.39810	-5.23790	.00000	5.97550	00910	01750	00520	.00540
10.518	1.242	.60000	.63340	10.40180	-5.23580	.00800	5.87280	01120	01710	00390	.00440
10.511	5.718	.60020	.32860	10.40050	-5.23670	.00800	5.86530	01460	01840	08030	.00300
10.517	13.048	.59950	17620	10.40330	-5.24020	.00000	5.85710	01670	02190	.80420	.00140
10.529	28.455	.60000	-1.23960	10.41620	<del>-</del> 5.25120	.00000	5.84810	01200	01870	.00520	.00010
10.535	43.071	.60080	-2.24820	10.43250	-5.26010	.00000	5.84030	01840	01390	.00380	00030
10.533	47.085	.60070	-2.52230	10.43510	-5.26270	.00000	5.83630	01030	01300	.00340	00040
	GRADIENT	.00004	06805	00029	00020	.00000	00168	00076	00029	.00000	00031
		สบพ พว	764/ 0	RN/L =	3.26 G	RADIENT INTER	RVAL	00/ 12.63			
ALPHAO	ĐZ	MACH	ÐΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.817	. 178	.60040	29330	10.38910	-5.21580	.00000	5.90850	00220	02980	00560	.00940
14.797	3.067	.60070	49780	10.40960	~5.21220	.00000	5.90420	01100	02620	00%50	.00830
14.787	7.581	.59930	81630	10.41730	-5.21290	.00080	5.89670	01520	02770	.00010	.00690
14.780	15.133	.59990	-1.34110	10.42580	-5.21590	.00000	5.00060	01750	02550	.00270	.00430
14.773	29.995	.59930	-2.37300	10.44100	-5.22670		5.86560	01600	03280	.01170	.00040
14,775	45.089	.60000	-3.41890	10.45180	-5.23340	.00000	5.85390	01260	01900	.00580	.00040
14.771	60.069	.60020	-4.45690	10.47380	-5.24560	.00000	5.84420	01110	01460	.80420	.00000
	GRADIENT	00016	07063	.00362	.00034	.00000	00160	00168	.08023	.00079	00034

,

14.753

43.346

58.323

GRADIENT

.60010

.60020

-.00009

-8.11400

-.13722

-10.28620

10.44480

10.45770

-.00332

-5.22970

-5.24130

.00103

.00000

.00000

.00000

9.73780

9.72950

-.00139

-.01780

-.00890

.00109

-.01910

-.01560

.00029

CARO 747/1 01 51

CARRIER DATA

(AGN123) ( 8) DEC 75 )

.00930

.00550

.00430

.00863

~.00058

--00115

-.00170

-.00926

## REFERENCE DATA

## PARAMETRIC DATA SREF - 5500.0000 SQ.FT. XMDb = 1339.9000 IN.XC ALPHAC = 8.000 BETAC . .008 LREF = 327.7800 IN. **YHRP** .0000 IN.YC ELV-18 -.080 ELV-OR . .pop GREF = 2348.0400 IN. ZHRP 190.8800 IN.ZC ELEVON = 5.000 HACH SCALE = .600 .0300 BETAD = -5.000 PHI . ODB .000 DY 10.000 RUN NO. 762/ 0 RN/L = 3.28 GRADIENT INTERVAL ... .00/ 12.00 **ALPHAO** DΖ HACH ĐΧ DY BETAO PHI ALPHAH **BETA** CY CLN C3T 10.341 -3.606 .60010 -.58610 10.45990 -5.25020 .00000 9.74490 -.00690 -.01900 -.00590 -.00068 10.346 -.403 .59950 -1.02000 10.44290 -5.24670 .00000 9.74600 -.01040 -.02130 -.00220 -.00068 10.375 5.542 .60010 -1.03100 10.41910 -5.23990 .00000 9.74280 -.01460 -.02280 .00230 -.00120 10.411 11.472 .60010 -2.65140 10.41120 -5.23870 .00000 9.73990 -.01770 -.02460 .00560 -.00198 10.469 26.651 .59920 -4.75740 10.41420 -5.24700 .00000 9.73260 -.00880 -.01700 .00430 10.496 -.00228 41.561 .59930 -6.83220 10.42860 -5.25710 .00000 9.72730 -.00810 -.01380 .00360 -.00240 10.503 46.845 .60020 -7.56839 10.43080 -5.25900 .00000 9.72580 -.00790 -.01330 .00340 -.00238 GRADIENT .00000 -.13835 -.00133 .00020 .00000 -.00049 -.00052 -.08830 .00056 -.00012 RUN NO. 763/ 0 RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00 **ALPHAD** DZ HACH ĐΧ BY BETAO PHI ALPHAN BETA CY CLN CSL. 14.689 -1.516 .60080 -1.91590 10.45900 -5.22780 .00000 9.77730 -.00670 -.03070 ~.00660 .00550 14.691 2.914 .60020 -2.51930 10.54440 -5.21870 .00000 9.77300 -.01230 -.03170 -.00060 .00428 14.699 7.487 .59980 -3.14680 10.42920 -5.21400 .00000 9.76670 -.00730 -.03040 .00230 .00300 14.711 13.631 .59930 -3.99010 10.41880 -5.21290 .60000 9.75730 -.01900 -.03240 .00660 14.742 .00178 28.443 .59990 -6.03760 10.42940 -5.22190 .00000 9.74450 -.02910 -.02970



DATE 01 DEC 75

GRADIENT

.00010

-.06997

.00333

-.00122

.00000

-.00127

-.00001

.00029

.00098

-.00038

TABULATED SOURCE DATA - CA20

			CYSO	747/1	01 SI	c	ARRIER DAT	TA	LAGNIE	94) (0) D	EC 75 1
	REFERENC	E DATA							PARAHETRIC	DATA	
SREF = !	6500.0000 SQ.I	FT. XHRP	• 1339.9	000 IN.XC				ALPHAC =	4.000	BETAC =	5.000
LREF =	327.7800 IN.	YHRP	.0	000 IN.YC				ELY-18 =	.000	ELY-08 =	.000
	2348.0400 IN.	ZMRP		000 IN.ZC				ELEVON =	5.000	HACH *	.600
SCALE =	.0300							BETAO =	-5.000	PHI =	.000
	•							DX =	.000	DY =	10.000
	-	RUN NO	. 769/ 0	RN/L =	3.24	GRADIENT INTER	IVAL = .	.00/ 12.00			
ALPHAO	DZ	MACH	DX	BY	BETAO	PHI	ALPHAH	BETA	CY	CLN	ca"
10.561	-1.968	.60050	.84330	9.22610	-5.20960	00000	5.87540	5.00580	12880	.01980	01075
10.533	1.261	.60040	.62320	9.23700	-5.21859	00000.	5.87370	5.00280	12770	.02290	01190
10.511	5.843	.60050	.31690	9.24170	-5.22710	00300.	5.87190	4.98430	12660	.02610	01310
10.506	13.217	.60020	15490	9.24420	-5.23469	00000.	5.86400	4.98420	12140	.02630	01386
10.514	28.279	.59950	-1.23590	9.25270	-5.24698	00000.	5.85360	4.99140	11730	.02680	~.01460
10.514	42.986	.59930	-2.25500	9.26120	-5.25480	00000.	5.84920	4.99910	11520	.02680	01510
10.518	46.942	.59980	-2.52760	9.26360	-5.25640	00000.	5.84540	4.99920	11450	.02660	01510
	GRADIENT	.00802	05916	.00103	00186	.00000	00039	00404	.00024	.00070	00026
		CA NUR	. 772/ 0	RN/L =	3.23	RADIENT INTER	VAL .	00/ 12.00			
ALPHAO	0Z	HACH	DX	DY	DETAC	PHI	ALPHAM	BETA	CY	CLN	CSL.
14.954	.809	.60000	36940	9.30510	-5.19510	00000.	5.90150	4.99800	13740	.01950	00750
14.915	4.128	.59920	59930	9.32970	-5.20000	.00000	5.89460	4.99270	13780	.02510	00930
14.888	10.992	.60080	-1.07290	9.34180	-5.20770	.00800	5.68800	4.99680	13470	.02900	01130
14.877	18.691	.60050	-1.60570	9.35210	-5.21430	.00000	5.87640	4,99090	12570	.02720	01240
14.871	33.530	.60040	-2.63000	9.36710	-5.22520	.00000	5.85860	4.98910	12310	.02920	01400
14.867	48.582	.60010	-3.67260	9.37470	-5.23120	.00000	5.84820	4.98940	11990	.02890	01480
14.860	63.797	.59940	-4.73190	9.39310	-5.24340	.00000	5.84160	4.99840	11610	.02750	~.01490

CA20 747/1 01 SI

CARRIER DATA

(AGN125) ( 01 DEC 75 )

FREN	

GRADIENT -.00014 -.13657 -.00236

SCE DATA	PARAMETRIC DATA
	110000000000000000000000000000000000000

	HEF EHEF	ME UNIA							PARAMETRIC	DATA	
EREF = 5	5500.0000 SC 327.7800 II			9000 IN.XC				ALPHAC =	8.080	BETAC .	5.000
	2348.0400 II	•						ELV-18 *	.020	ELY-08 *	.000
		Y. ZIW	P = 190.8	3080 IN.ZC				ELEVON =	<b>5.0</b> 00	HACH =	.600
SCALE =	.0308							BETAO -	-5.000	PHI =	.000
								Ox =	.000	DY -	10.000
		RUN N	0. 770/ 0	RN/L =	3.23	GRADIENT INTE	RVAL -	.00/ 12.00			
ALPHAO	DZ	HACH	ВX	DY	BETA	10 PH1	<b>Д.Р</b> НДИ	BETA	CY	CLN	CSL
.0.389	-3.483	.59990	59100	9.18540	-5.198	00000.	9.73870	5.00483	12670	.01550	00910
10.364	364	.68840	-1.01940	9.20850	-5.212	240 .08888	9.73710	5.08040	12550	.02050	00960
10.376	4.846	.59980	-1.62970	9.20920	-5.222	.00000	9.73610	5.00530	12360	.02300	~.01040
10.412	11.707	.59960	-2.68950	9.21350	-5.231	10 .00000	9.73290	4.98950	11930	.02430	01096
10.454	26.499	.59960	-4.73520	9.21380	-5.242	60 .60888	9.72830	4.99510	11570	.02550	01160
10.479	41.497	.59910	-6.81820	9.22210	-5.251	40 .60888	9.72080	4.99598	11180	.02480	01170
10.486	46.758	.59950	-7.55090	9.22410	-5.254	68 .00800	9.71940	5.00350	11150	.02490	01190
	GRADIENT	.00000	13820	.08058	001	12 .00000	00042	00219	.08056	.05017	00007
		RUN N	). 771/ O	RN/L =	3.23	GRADIENT INTER	ival = .	.00. 12.00			
ALPHAO	ĐΖ	MACH	DX	DY	BETA	0 PH1	ALPHAH	BETA	CY	CLN	CSL
14.823	894	.59960	-2.03280	9.33230	-5.195	80 .08089	9.76760	5.01150	13530	.01680	00800
14.797	1.955	.60050	-2.41590	9.34470	-5.203	00000. 08	9.76340	4.99810	13600	.02180	00970
14.791	6.399	.59990	-3.02280	9.33420	-5.207	50 .00000	9.75890	4.99440	13420	.02580	01060
14.798	14.059	.60070	-4.07020	9.31690	-5.210	20 .00000	9.74920	5.00170	~.12670	.02630	01140
14.819	28.947	.59990	-6.12930	9.31700	-5.218	000000	9.74410	4.99360	11990	.02680	01090
14.842	43.761	.60020	-8.18550	9.32610	-5.225	00000	9.73320	5,00170	11648	.02660	01120
14.647	59.029	.59990	-10.31650	9.34040	-5.235		9.72670	5.00260	11330	.02570	01149
	COADICAT	- 00014	17057	- 00070							101110

-.00093

.00000

-.00101

-.00083

.00841

.00090

-.00020

DATE OF DEC 75

## TABULATED SOURCE DATA - CA20

PAGE 179 CARRIER DATA CA20 747/1 02 S1 (AGN126) ( 81 DEC 75 ) REFERENCE DATA PARAMETRIC DATA = 1339,9000 IN.XC ALPHAC = SREF = 5500.0000 SQ.FT. XHRP 4.000 BETAC = -5.000 ELV-IB = 327.7800 IN. YHRP = .0000 IN.YC .000 ELV-08 -3.000 BREF = 2348.0400 IN. 2HRP = 190.8000 IN.ZC ELEVON = 5,000 HACH .600 SCALL . .0300 BETAO = .000 PHI .000 DΥ .000 .000 RUN NO. 658/ 0 RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00 DX BETAO ALPHAH ALF JAG DZ MACH DY PHI BETA CY CLN CSL .60040 10.78960 1.93190 .02640 .00000 5.87110 -.01750 10.466 -1.096 -4.99100 .10100 .01590 .59920 10.56940 .01790 .00000 5.87110 10.459 2.127 1.94420 -4.97980 .10010 -.02110 .01640 10.459 6.620 .60000 10.26250 1,96080 .01060 .00000 5.86390 -4.99600 .09850 -.02260 .01660 .00250 14.115 .59980 9.74740 1.97410 .00000 5.85590 -4.97810 .01640 10.464 .09520 -.02260 -.00580 1.99380 .00000 10.475 29.115 .59940 8.71410 5.84530 -4.99080 .08810 -.01960 .01520 44.160 .59950 7.67070 2.00190 -,80610 .00000 5.84030 -4.98800 .08890 -.02010 10.481 .01480 -4.98759 48.200 .59920 7.39520 2.00180 -.00610 .00000 5.83410 10.485 .08980 -.02070 .01470 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 747/1 02 51 CARRIER DATA CAZO (AGN127) ( 01 DEC 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 5500.0000 SQ.FT. XHEP = 1339,9000 IN.XC ALPHAC = 4.000 BETAC = -5.000 .0000 IN.YC ELY-18 = LREF = 327.7800 IN. YMRP = .000 ELV-08 = 3.000 BREF = 2348.0400 IN. ZHRP = 190.8000 IN.ZC ELEVON = 5.000 MACH .600 BETAO = SCALE = .0300 .000 PHI .000 DX 10.000 DY .000 RUN NO. 657/ 0 RN/L = 3.34 GRADIENT INTERVAL = -1.00/ 4.00 **ALPHAO** DZ HACH DX DY BETAO PHI **ALPHAH** BETA CY CLN CSL 10.433 -1.292 .59920 10.78030 1.92340 .02690 .08000 5.86290 -4.96760 .09990 -.01770 .01590 1.93720 .01910 .0000 5.86170 -4.96380 10.431 1.807 .59920 10.57160 .10160 -.02180 .01630 10.433 6.229 .60000 10.27180 1.94970 .01210 .00000 5.85780 -4.96200 .10690 -.02350 .01650 14.070 .60000 9.73470 1.96260 .08440 .00000 5.65180 -4.95390 .09930 -.02380 .01650 10.444 -.00320 5.84330 .59930 8.71920 1.97980 .00000 -4.95700 10.465 28.827 .09020 -.02020 .01540 10.477 43.949 .59940 7.67520 1.99260 -.00450 .00000 5.83720 -4.97220 .09070 -.02060 .01490 10.478 48.212 .59960 7.38180 1.99180 -.00550 .00000 5.83600 -4.96410 .09120 -.02080 .01490 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

		CYSO	747/1	02 51	c	ARRIER DATA		(AGN12	8) ( O1 DE	C 75 1
REFERENCE	DATA							PARAHETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T, XHRP YHRP ZHRP	00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = OX =	4.000 .000 5.000 .000 20.000	9ETAC = ELV-08 = HACH = PHI = BY =	-5.000 3.000 .600 .000
	RUN NO.	569/ 0	RN/L =	3.32 GRAD	DIENT INTER	YAL = -1.0	0/ 4.00			
ALPHAO DZ 10.338 -1.706 10.333 1.490 10.348 5.895 10.360 13.450 10.363 28.424 10.396 43.434 10.401 48.251 GRADIENT	.59930	DX 20.78390 20.57030 20.26620 19.75050 18.72420 17.69220 17.35740 .00000	DY 2.80120 2.80850 2.82240 2.84000 2.84590 2.86070 2.86070 .00000	BETAO .02290 .01620 .00670 .00250 00400 00470 00700 .00000	PHI .00800 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.04610 5.04610 5.04260 5.04260 5.03120 5.03120 5.02450 .00000	BETA -+,97720 -+,95530 -4,96280 -4,97010 -+,95760 -4,97340 -4,96530 ,00000	CY .09780 .10120 .10220 .09970 .09160 .09070 .00150	CLN01580021400240002430020900205002090	CSL .01490 .01590 .01610 .01640 .01540 .01480 .01480
REFERENCE	CATA	CVED	17//1	00 31		AUTER DATA		PARAHETRIC		
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300		• .00	OD IN.XC OD IN.YC OD IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = OX =	4.000 .000 5.000 .000	BETAC = ELY-OB = HACH = PHI = OY =	.000 3.000 .600 .000
	RUN NO.	652/ 0	RN/L =	3.31 GRAD	DIENT INTER	WAL = -1.8	0/ 4.00			
ALPHAO DZ 10.500437 10.491 2.559 10.491 7.175 10.496 14.594 10.508 26.858	HACH .60030 .59970 .60030 .59940	DX .77380 .56060 .25130 ~.26210	OY 01920 01970 01380 01610 00610	BETAO .00560 .00480 .00350 .00270 00180	PHI .00000 .00000 .00000 .00000	ALPHAH 5.67480 5.87310 5.86550 5.85330 5.84700	BETA .04740 .05460 .03860 .05350 .04480	CY 00840 00860 00930 01120	CLN 00040 .0020 .0000 .00150 .00200	.00040 .00030 .00020 .00000

.00000

.00000

.00800

.00000

5.84330

5.83550

5.83420

-.00055

-.01160

-.01060

-.01010

.00000

.03710

.04500

.04510

.00233

.00260

.00250

.00230

.00019

-.00040

-.00030

-.00040

-.00003

-.00180

-.00840

-.00016

.60190

-.00280

-.00350

-.60470

-.00026

29.527

44.750

49.090

GRADIENT

10.510

10.521

10.524

.59940

.59910

.60070

-.00019

-1.28258

-2.33460

-2.56460

-.C6987



DATE OI DEC 75

TABULATED SOURCE DATA - CA20

PAGE 181

		•									~
			CAZO	747/1	02 SI	ı	CARRIER DAT	A	CACHI	191 (01 (0	EC 75 1
	REFEREN	ICE DATA		,					PARAHETRI	DATA	
SREF *	5500.0000 S0	.FT. XHRP	• 1339.90	OB IN.XC				ALPHAC =		DET.0 -	
LREF =	327.7800 IN			DO IN.YC					4.000	BETAC =	.000
	2348.0400 IN			000 IN.ZC				ELV-18 =	.000	ELV-OB =	3.000
SCALE =	.0300	. grau-	- 190.61	100 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE -	.0300							BETAO •	.000	PHI =	.000
								DX =	.000	DY =	.000
		RUN NO	. 653/ 0	RN/L =	3.29 GR/	WIENT INTE	RVAL = -1.0	00/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.760	1.601	.60030	37590	00820	00010	.00000	5.90450	.03130	00780	00030	.00048
14.750	4.801	.60000	60190	00730	00160	.08800	5.89740	.04589	08959	.00000	.00020
14.743	9.200	.59960	90970	-,00670	00130	.00000	5.89170	.04590	00920	.00100	.00020
14.738	16.514	.59900	-1.41430	00350	00310	.00000	5.87580	.05400	00940	.00080	.00010
14.739	31.538	.59910	-2.45150	.01100	00700	.00000	5.85960	.03740	01020	.00220	00020
14.741	46.575	.59900	-3.49040	.01400	00920	.00000	5.84790	.03740	01080		
14.736	61.537	.59920	-4.52810	.02380	01480	.00000	5.64020	.04460		.00260	+.00030
14.750	GRADIENT	.00000	.00000	.02388	.00080	.00000	.00000		01150	.60280	00830
	ONDICHT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
			CASO	747/1	02 SI		*****			<b>.</b>	
			CXED	1777	ve si	•	CARRIER DATA	<b>\</b>	(AGN13	का रका छह	C 75 1
	REFEREN	CE DATA							PARAHETRIC	DATA	
SREF = !	5500.0000 SQ	.FT. XMRP	<b>= 1339.9</b> 0	00 IN.XC				ALPHAC =	4.000	BETAC -	.000
LREF =	327.7800 IN			OD IN.YC				ELV-18 =	.000	ELV-08 =	3.000
	2348.0400 IN			00 IN.ZC				ELEVON =	5.000	MACH =	.600
SCALE -	.0300							BETAO =	.000	PHI =	.000
								DX =	10.000	DY =	.000
								<b>-</b>	10.000	<b>.</b> -	.000
		RUN NO.	. 681/ 0	RN/L =	3.30 GRA	DIENT INTER	RVAL = -1.0	10/ 4.00			
ALPHA0	DZ	MACH	OX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.416	~1.295	.59950	10.81230	00590	.00640	.00000	5.86600	.00120	00710	00070	.00050
10.413	1.696	.59980	10.60770	00370	.00510	.00000	5.86550	.00080	00720	00020	.00040
10.418	6.294	.59950	10.29140	00080	.00360	.00000	5.86130	.00010	00800	.88870	.00030
10.427	13.796	.59900	9,77720	00100	.00500	.80080	5.85460	.00730	60840	.00130	.00030
10.446	28.832	.59940	8.74400	.00980	00260	.00000	5.64380	00150	01080	.00250	00020
10.459	43.886	.59950	7.71030	.00330	00200	.00000	5.83270	00150	01040	.00240	
10.460	48.115	.59900	7.41160	.01090	00390	.00000	5.83590	.80630	01050	.00250	00030 00030
	GRADIENT	.00000	.08080	.00000	.60000	.00000	.00000	.00800	.00000		-
							.00000		.00000	.00800	.00000

S

GRADIENT

.00000

.00080

.00000

.00000

.00000

.00000

.00000

.00800

.00000

.60000

PAGE 182

CA20 747/1 02 SI CARRIER DATA (AGN130) ( 01 DEC 75 ) REFERENCE DATA PARAMETRIC DATA SREF \* 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC ALPHAC = 4.000 BETAC = .000 LREF 327.7800 IN. YMRP = .0000 IN.YC ELV-18 -.000 ELV-09 = 3,000 BREF # 2348.0400 IN. ZMRP = 190.8000 IN.ZC ELEVON = 5.000 HACH .680 SCALE = .0300 BETAD . .000 PHI .000 DX 10.088 DY .000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 659/ 0 3.31 RN/L . **ALPHAO** DZ HACH ĐХ DY **BETAO** CSL PH! **ALPHAH** BETA CY CLN 14.654 1.473 .59920 9.49420 .00240 -.00220 .00000 5.89650 -.01400 -.60470 -.08148 .00058 14.652 4.559 .59970 9.28000 -.00770 -.00200 .00000 5.69380 .00780 -.60710 .00010 .00038 .60080 8.97090 -.00540 -.00190 .00000 5.68430 14.654 9.090 -.00040 -.00808 .00010 .00090 14.654 16.527 .59930 8.45720 -.60110 -.00280 .08000 5.87540 -.00060 -.00B30 .00130 .00010 14.662 31.535 .59920 7.42330 .01230 -.00790 .08000 5.86060 .00650 -.00930 .00210 ~.00020 14.669 46.582 .60060 6.38510 .01520 -.00739 .00000 5.85040 -.00160 -.01020 .00250 -.00030 14.666 61.500 .59930 5.35300 .02020 -.81170 .00000 5.84130 .09630 -.01010 .08250 -.00030 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 CARRIER DATA CVSS 747/1 02 51 (AGN131) ( 01 DEC 75 ) REFERENCE DATA PARAMETRIC DATA XHRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. ALPHAC = 4.000 BETAC = .069 327,7800 IN. YHRP .0000 IN.YC ELV-IB = \_000 ELV-08 = 3,000 BREF = 2348.0400 IN. ZHRP = 190.8000 IN.ZC ELEVON = 5.000 HACH .600 SCALE = .0300 BETAO -.000 PHI .000 20.000 BY .000 RUN NO. 665/ 0 RN/L = 3.29 GRADIENT INTERVAL # -1.00/ 4.00 ALPHA0 ΟZ HACH DX DY BETAO PHI **ALPHAH** BETA CY CLN CSL 20.75990 -.013è0 10.344 -1.157 .60020 .01070 .00000 5.85580 .00810 -.00810 .00000 .00038 10.344 1.504 .60090 20.57800 -.01080 .00820 .00000 5.85790 .00750 -.00840 .00060 .00020 10.359 6.352 .60080 20.24648 -.01160 .00820 .00000 5.85700 .00570 -.00970 00160 .00000 19.74450 10.371 13.612 .60090 -.00940 .00680 .00000 5.84970 .00620 -.01020 .00220 -.00020 10.391 28.736 .59970 18.70630 -.00410 .00100 .00000 5.83920 .01320 -.01170 .00310 -.00050 43.809 .59970 17.66210 .00120 .00220 .00000 5.83580 .00580 10.408 -.01690 .00280 -.00050 17.34590 .00520 .00030 48.295 .59950 .00000 5.83690 .00580 -.01060 10.408 .00270 ~.00050



-				-
D)	LIE.	un	DEC	7.5

	EC 75	TABUL	ATED SOURCE	DATA - CA	50					PAG	E 183
			CV50	747/ L	02 SI	c	ARRIER DATA		(AGN13	51) ( O1 DE	C 75 1
	REFERENC	E DATA							PARAMETRIC	: DATA	
REF = 5	5500.0000 SQ.	FT. XHRP	= 1339.90	000 IN.XC				ALPHAC =	4.000	BETAC .	.008
.REF =	327.780D IN.	PPHY	.00	000 IN.YC				ELV-IB =	.000	ELV-OB .	3.000
REF • 6	2348.0400 IN.	ZHRP	<b>=</b> 190.80	000 IN.ZC				ELEVON =	5.000	HACH .	.600
CALE =	.0309							BETAO =	.000	PHI =	.000
								DX =	20.000	BY =	.000
		RUN NG	. 666/ 0	RN/L =	3.30 GRAI	DIENT INTER	VAL = -1.0	10/ 4.CG			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CST
14.563	1.265	.60070	19.36720	÷.08558	.00370	.00000	5.88270	00740	00690	00050	.000
14.561	3.972	.59970	19.17960	01280	.00290	.00800	5.88100	.00760	00760	.00020	.000
14.566	8.805	.60090	18.65080	01360	.00120	.00800	5.87500	.00680	08870	.00120	.000
14.572	16.457	.60070	18.32510	01960	.00040	.00800	5.86880	.01380	08980	.03212	000
14.587	31.737	.59980	17.27880	00450	00270	.00000	5.85150	.00560	01080	מרקמס.	000
14.590	46.430	.60030	16.26130	.00240	00300	.00000	5.84570	.01340	01080	.00286	000
14.592	61.104 GRADIENT	.60010 00037	15.24460 05931	.01090 +.00270	00780 00030	.00000 00000	5.04000 00063	.01330 .00554	01110 00026	.00026	000 000
			CA20	747/1	02 51	c	ARRIER DATA		(AGN13	55) ( 01 DE	C 75 )
	REFERENC	E DATA							PARAMETRIC	: DATA	
	5500.000D SQ.I		- 1770 01								
ref • :		FT. XHRP	<b>= 1339.9</b> 0	000 IN.XC				ALPHAC =	8.080	BETAC =	.DQ6
	327.7800 IN.	FT. XMRP YMRP		DOD IN.XC				ELV-1B =	8.080 000.	BETAC = ELY-08 =	
REF =			00								3.000
REF = 8	327.7800 IN.	YHRP	00	000 IN.YC				ELV-1B .	.080	ELV-08 =	3.000 .500 .000
REF = 8	327.7800 IN. 2348.6400 IN.	YHRP	00	000 IN.YC				ELEVON =	.000 5.000	HACH =	3.000 .500 .000
REF = 8	327.7800 IN. 2348.6400 IN.	YHRP	00. 09.003 =	000 IN.YC	3.29 GRAI	DIENT INTER	VAL = -1.0	ELV-1B = ELEVON = BETAO = DX =	.000 5.000 .000	ELY-08 = HACH =	3.000 .500 .000
REF = 2 CALE =	327.7800 IN. 2348.0400 IN. .0300	YHRP ZHRP RUN NO HACH	- 190.80 - 190.80 . 655/ 0	000 IN.YC 000 IN.ZC RN/L =	8ETA0	PH1	ALPHAH	ELV-1B = ELEVON = BETAO = DX =	.000 5.000 .000 .000	ELY-08 = HACH = PHI = DY =	3.000 .600 .000
REF = ECALE =  ALPHAO 10.325	327.7800 IN. 2348.0400 IN. .0300 DZ -3.370	YHRP ZHRP RUN NO MACH .60020	00 - 190.80 . 655/ 0 DX 58580	000 IN.YC 000 IN.ZC RM/L = DY 01840	8ETAO . 00440	PH1 .00000	ALPHAH 9.73250	ELV-1B = ELEVON = BETAO = DX =  DX =  DO	.000 5.000 .000 .000 CY 01090	CLN00060	3.000 .600 .000 .000
REF = 8 CALE =  ALPHAO 10.325 10.339	327.7800 IN. 2348.0400 IN. .0300 DZ -3.370 284	YHRP ZHRP RUN NO MACH .60020 .59980	- 190.80 - 190.80 . 855/ 0 DX -1.58580 -1.00620	RN/L =  DY0184002020	8ETAO .00440 .00540	PH1 .00000 .00000	ALPHAH 9.73250 9.73490	ELV-18 = ELEVON = BETAO = DX = DX = DO/ 4.00 BETA .05010 .04910	.000 5.000 .000 .000 .000 CY 01090 01090	ELV-08 = HACH = PHI = DY =  CLN00060 .00040	3.000 .600 .000 .000
ALPHAO 10.325 10.358	327.7800 IN. 2348.0400 IN. .0300 DZ -3.370 284 4.265	YHRP ZHRP RUN NO HACH .60020 .59980	- 190.80 - 190.80 - 190.80 - 1.88580 - 1.88580 - 1.88680	000 IN.YC 000 IN.ZC RN/L = DY 01840 02020 01390	8ETAO .00440 .00540 .00340	PHI .00000 .00000 .00000	ALPHAR 9.73250 9.73490 9.73230	ELV-18 = ELEVON = BETAO = DX = DX = DO/ 4.00 BETA .05010 .04910 .04020	.000 5.000 .000 .000 CY 01090 01080	ELY-08 = HACH = PHI = DY =  CLN00060 .00040	3.000 .600 .000 .000
ALPHAO 10.325 10.339 10.393	327.7800 IN. 2348.0400 IN. .0300 DZ -3.370 284 4.265 11.674	YHRP ZHRP RUN NO MACH .60020 .59980 .59930	00 - 190.80 - 190.80 59580 - 1.00620 - 1.62680 - 2.64370	000 IN.YC 000 IN.ZC RN/L = DY 01840 02020 01390 01290	8ETAO .00440 .00540 .00340 .00270	PH1 .00000 .00000 .00000	ALPHAH 9.73250 9.73490 9.73230 9.72790	ELV-18 = ELEVON = BETAO = DX = DX = DO/ 4.00 BETA .05010 .04910 .04020 .03930	.000 5.000 .000 .000 CY 01090 01080 01220 01270	ELY-08 = HACH = PHI = DY =  CLN00060 .00040 .00160	3.000 .000 .000 .000 000 000
ALPHAO 10.325 10.339 10.358 10.393 10.467	327.7800 IN. 2348.0400 IN. .0300 DZ -3.370 284 4.265 11.674 26.974	YHRP ZHRP RUN NO MACH .60020 .59980 .59930 .60060	00 - 190.80 - 190.80 58580 - 1.00620 - 1.62680 - 2.64370 - 4.76500	RN/L =  DY0184002020013900129000550	8ETAO .00440 .00540 .00340 .00270	PH1 .00000 .00000 .00000 .00000	ALPHAH 9.73250 9.73490 9.73230 9.72790 9.72060	ELV-18 = ELEVON = BETAO = DX =  DV 4.00  BETA .05010 .04910 .04020 .03930 .84650	.000 5.000 .000 .000 CY 01090 01080 01220 01270 01300	ELY-08 = HACH = PHI = DY =  CLN00060 .00040 .00160 .00260 .00330	3.000 .600 .000 .000
REF = 2 CALE = 2 ALPHAO 10.325 10.339 10.358 10.393 10.467 10.499	327.7800 IN. 2348.6400 IN. .0300 DZ -3.370 284 4.255 11.674 26.974 41.940	YHRP ZHRP RUN NO MACH .60020 .59980 .59930 .60050 .60090	00 - 190.80 - 190.80 58580 - 1.00620 - 1.62680 - 2.64370 - 4.76500 - 6.84130	DY -01840 -01390 -01390 -00550 -00280	8ETAO .00440 .00540 .00340 .00270 00210	PH1 .00000 .00000 .00000 .00000	ALPHAR 9.73250 9.73490 9.73230 9.72790 9.72060 9.71560	ELV-18 = ELEVON = BETAO = DX =  DV 4.00  BETA	.000 5.000 .000 .000 CY 01090 01080 01270 01300 01230	ELY-08 = HACH = PHI = DY =  CLN000600016000160 .00260 .00330 .00310	3,000 .500 .000 .000 .000 .000 000 000 001
REF = 2 CALE = 2 ALPHAO 10.325 10.339 10.358 10.393 10.467	327.7800 IN. 2348.0400 IN. .0300 DZ -3.370 284 4.265 11.674 26.974	YHRP ZHRP RUN NO MACH .60020 .59980 .59930 .60060	00 - 190.80 - 190.80 58580 - 1.00620 - 1.62680 - 2.64370 - 4.76500	RN/L =  DY0184002020013900129000550	8ETAO .00440 .00540 .00340 .00270	PH1 .00000 .00000 .00000 .00000	ALPHAH 9.73250 9.73490 9.73230 9.72790 9.72060	ELV-18 = ELEVON = BETAO = DX =  DV 4.00  BETA .05010 .04910 .04020 .03930 .84650	.000 5.000 .000 .000 CY 01090 01080 01220 01270 01300	ELY-08 = HACH = PHI = DY =  CLN00060 .00040 .00160 .00260 .00330	.906 3.000 .800 .000 .000 000 000 001 001

the second secon

	CA20	747/1	02 51	CARRIER DATA	(SETHOA)	01 DEC 75
REFERENCE DAT	ГА				PARAMETRIC DATA	

LREF .	509.0000 SQ.F 327.7800 IN. 1348.0400 IN. .0300	YHRP ZHRP	* .00 # 190,80	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAC = OX =	8.000 .000 5.000 .000	BETAC = ELY-08 = MACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO.	6547 0	RN/L =	3.27 GRA	DIENT INTER	AYF = -1.0	0/ 4.08			
ALPHAO 14.639 14.640 14.651 14.669 14.700 14.717	0Z -1.095 1.805 6.322 13.967 28.918 43.759 58.717 GRADIENI	.59900 .59930 .59930 .59940 .60000	DX -1.94790 -2.34740 -2.96170 -4.00010 -6.07580 -8.13400 -10.22410 .00080	0Y 01490 01540 01730 01860 +.01170 .00140 .01690	00000 00000	PHI .00069 .00000 .00000 .00000 .00000 .00000	ALPHAN 9.77180 9.77590 9.76190 9.75180 9.73820 9.72610 9.72190	BETA .04100 .04040 .04750 .03900 .05370 .04610 .03880 .00008	CY01140011790121001300013700138001270 .00000	CLN 00010 .00070 .00150 .00250 .00350 .00350 .00320	CSL .00029 .0000 .0000 -00030 00080 00100 00110
			CAZO	747/1	02 51	c	ARRIER DATA		(AGN)3	3) (01 DE	C 75 )
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF =	3500.0000 SQ.F 327.7800 IN. 348.0400 IN.	YMRP	00	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	8.600 .600 5.600 .600	BETAC = ELV-08 = KACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO.	658/ 0	RN/L =	3.32 GRA	DIENT INTER	VAL = -1.0	0/ 4.00			
ALPHAO 10.250 10.261	DZ -3.341 279	MACH .59930 .60070	0X 9.46660 9.04960	DY 00230 00670	BETAO .00660 .00710	PHI .00000 .00000	ALPHAH 9.73350 9.73400	AT38 0380 .0380	CY 00790 00880 00850	00100 00100	CSL .00070 .00050

		11011 110	. 000. 5								
ALPHAO	ΩZ	насн	ÐΧ	DY	DETAG	PHI	ALPHAH	BETA	CY	CLH .	CST.
10.258	-3.341	.59930	9.46660	00230	.00660	.00000	9.73350	00380	+.00790	00100	.00070
10.261	279	.60070	9.04960	00678	.00710	.00000	9.73400	.00310	00880	.00000	-80050
10.285	4.305	.60080	8.41940	00380	.00540	.00000	9.73010	.00210	00950	.00100	.00040
10.320	11.768	.60090	7.39060	00170	.00420	.00000	9.72910	.00100	01120	.00230	-00030
10.393	26.778	.59980	5.31340	.00370	00080	.00000	9.72150	.00810	01170	.00300	.00020
10.431	41.918	.60030	3.20170	.01180	00850	.00800	9.71970	00690	~.01070	.60270	.00030
10.441	48.647	.60060	2.26430	.01198	00240	.00000	9.71860	.00070	01100	.00280	.00030
	GRADIENT	.00800	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

\_\_\_\_\_\_

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

			CY50	747/1	05 21	•	CARRIER DAT	A	(ACH)	33) ( O1 D	EC 75 )
	REFERENC	E DATA							PARAHETRI	DATA	
SREF = LREF = BREF = SCALE =	5500.0800 SQ. 327.7800 IN. 2348.0400 IN. .0300	FT. XHRP YMRP ZHRP	.00	000 IN.XC 000 IN.YC 100 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO =	8.000 .009 5.009	BETAC = ELV-OB = HACH = PHI =	.000 3.000 .600
•								DX -	10.000	DY =	-000
		RUN NO.	660/ 0	RN/L =	3.29 GRA	DIENT INTER	RYAL = -1.0	9.00			
ALPHAO		насн	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CST.
14.520	-1.391	.60910	6.03730	.00340	.00250	.00000	9.76000	00500	00980	08010	00016
14.524	1.080	.59980	7.69910	.00410	.00150	.00800	9.75850	00550	01000	-00050	00010
14.540	6.153	.59910	7.00390	00180	.00850	.00800	9.75340	.00920	01060	-00140	00020
14.567	13.465	.59920	6.08060	00680	00040	.00800	9.74660	.01628	01170	.00220	00030
14.611	28.593	.59930	3.91600	.00730	+.00720	.00000	9.73550	00030	01300	.00350	00080
14.634	43.596	.59940	1.83370	.00150	00600	.00000	9.72810	.00760	01290	.00340	00100
14.648	58.440	.60020	23670	.01520	01150	.00000	9.72500	.08840	01180	.00300	00120
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
	REFERENC	E DATA	CA20	747/1	05 21	c	ARRIER DATA	•	(AGN13		EC 75 1
									PARAMETRIC	DAIA	
	5500.0800 SQ.I			DO IN.XC				ALPHAC =	8.088	BETAC .	.000
LREF =	327.7600 IN.	YMRP		00 IN.YC				ELV-IB =	.000	ELV-OB =	3.000
	2348.0400 IN.	ZMRP	<b>=</b> 190.80	DO IN.ZC				ELEVON =	5.080	HACH =	.600
SCALE =	ນນນ							BETAG =	.000	PHI =	.000
								DX =	20.000	ĐY =	.000
		RUN NO.	668/ 0	RN/L =	3.28 GRAI	DIENT INTER	IVAL # -1.0	10/ 4.00			
ALPHAO		MACH	ΟX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.184	-3.785		19.58200	01190	.01250	.00000	9.73010	.01060	00990	.00000	00010
10.194	.797		18.95340	01600	.01120	.00000	9.73130	.01700	01110	.00140	00030
10.227	6.220		17.92710	00760	.00800	.00200	9.72960	.00910	01290	.00270	00050
10.297	23.195		<b>15.</b> 848 <b>7</b> 0	08440	.00240	.00880	9.72530	.01510	0:370	.00370	00080
10.347	38.211		13.75840	00420	.00070	.00000	9.72080	. 02340	01240	.00300	.08020
10.366	49.399		12.19640	.00940	00190	.00000	9.72110	.00810	01200	.00300	.00040
	GRADIENT	.09000	.00000	.00000	.00000	.00000	.00000	.08889	.00000	.00000	.00000

			CA28	747/1	02 SI	C	ARRIER DATA	١.	(AGN13	P±)   01 Di	EC 75 )
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF =	5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300	T. XMRP YHRP ZHRP	00	08 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELEV- = BETAO = DX =	8.000 090 5.000 .000 20.080	BETAC = ELV-09 = HACH = PHI = DY =	200. 2003. 2003. 2000.
		RUN NO	. 667/ 0	RN/L =	3.29 GRAI	DIENT INTER	VAL = -1.0	97 4.00		•	
ALPHAO 14.434 14.439 14.456 14.462 14.529 14.557 14.572	DZ -1.978 1.123 5.557 13.159 28.036 42.826 57.824 GRADIENT	HACH .60080 .59910 .60090 .59930 .59980 .60040 .60030	DX 18.06030 17.63650 17.01440 15.98070 13.92490 11.67180 9.78330 .00000	DY00450003000060000680007400089000220	BETAO .00860 .00720 .00540 .00360 00290 00280 00830 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 9.75680 9.75390 9.75090 9.74550 9.73940 9.73310 9.72650 .00000	BETA .00220 .00130 .00810 .00740 .01490 .00760 .00000	CY01020011200126001370014800135001280 .00000	CLN .00030 .00120 .00240 .00320 .00410 .00360 .00340	CSL .00008 00030 00040 00000 00100 00110 00110
			CA20	747/1	05 2f	c.	ARRIER DATA	•	(AGN13	5) (01.06	C 75 1
	REFERENCE	DATA						1	PARAMETRIC	DATA	
LREF =	5500.0000 SQ.F1 327.7880 IN. 2348.0400 IN. .0300	r. XHRP YMRP ZHRP	080	00 IN.XC 00 IN.YC 10 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = OX =	4.000 .000 5.000 .000	BETAC = ELV-OB = NACH * PHI = OY =	-5.000 3.000 .600 .000
		RUN NO.	728/ 0	RN/L =	3.27 GRAC	LENT INTER	VAL = -1.0	0/ 4.00			
ALPHAO 10.520 10.517 10.515 10.523 10.531	0Z -1.686 1.116 5.425 13.266 28.048	HACH .59940 .60050 .60030 .60010	.68300 08005. 14640	DY 11.02640 11.02080 11.02730 11.04010 11.06810	BETAD .03050 .03090 .02590 .01690	PH1 .00000 .00000 .00000	ALPHAN 5.82670 5.82390 5.81750 5.81350	BETA -4.95860 -4.95160 -4.96100 -4.94970	CY .08500 .08490 .09310 .07710	CLH 02700 02610 02420 01970	CSL .0242 <b>0</b> .02360 .02240 .02010

10.542

10.549

28.323

43,196

GRADIENT

-1.16330

-2.17880

.00000

.60040

.60059

.08800

9.99290

10.00810

.00000

.00450

.00000

-.80350

.00000

.00000

.00800

5.80900

5.79920

.68088

-.00580

.00080

.00000

-.02810

-.02280

.00000

.00960

.00733

.00000

.00130

.00048

.00000

DATE 9: DEC 75	TABULAT	TED SOURCE	DATA - CA	120					PA	e iri
		CY50	747/1	02 SI	•	CARRIER DATA	L	(AGH13	ia) (010	EC 75 1
REFERE	ICE BATA							PARAMETRIC	DATA	
SREF = 5500.0000 SCALE = 5000.0000 SCALE = 5000.	I. YHRP	0	080 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELY-18 = ELEVON = BETAO = DX =	4.000 -000 5.000 -000 10.000	BETAC = ELY-08 = HACH = PHI = DY =	-5.000 3.000 .609 .000
	RUN NO.	732/ 0	RN/L =	3.26 GRA	DIENT INTER	RVAL1.0	10/ 4.00			
ALPHAO DZ 10.431 -2.314 10.429 1.200 10.436 5.569 10.442 12.949 10.461 28.270 10.477 43.283 10.478 47.056 GRADIENT	.60050 1 .60040 1 .60080 .60080	DX 10.06780 10.62870 10.32740 9.82710 8.77300 7.73500 7.47070 .00000	OY 11.92090 11.91570 11.92110 11.92880 11.95600 11.96900 11.97270 .00000	BETAO .02550 .02550 .02320 .01650 .00030 00600	PH1 .00000 .00000 .00000 .00000 .60000 .00000	ALPHAH 5.85030 5.84650 5.84590 5.83690 5.83260 5.82690 5.82790 .00000	9ETA -5.00450 -4.99710 -5.00650 -5.00300 -5.00920 -5.00680 -5.01380 .00000	CY .09110 .09170 .08930 .08230 .07370 .08030 .08240	CLH 02830 02790 02600 02130 01440 01720 01800 .00000	CSL .02250 .02230 .02170 .01500 .01520 .01540 .01530 .00000
		CYSO	747/1	02 SI	C	CARRIER DATA	•	(AGN13	73 (01.06	C 75 1
REFEREN	CE DATA							PARAHETRIC	DATA	
SREF = 5500.0000 SC LREF = 327.7800 IN BREF = 2348.0400 IN SCALE = .0300	I. YHRP	0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELY-IB = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = ELY-OB = HACH = PHI = DY =	.000 3.000 .600 .000
	RUN NO.	727/ D	RN/L =	3.35 GRAI	DIENT INTER	RVAL = -1.0	10/ 4.00			
ALPHAO DZ 10.539 ~1.720 10.532 1.145 10.533 5.590 10.535 13.225		0X .88540 .68770 .38650 13250	DY 9.99370 9.97640 9.97520 9.98060	BETAO .01890 .02070 .01990 .01510	PHI .00006 .00000 .00000	ALPHAH 5.83340 5.83250 5.82510 5.81720 5.80900	9ETA .03160 .02160 .01060 80130	CY 02020 01870 02800 02310	CLH 00790 00550 00200 .00250	CSL .00979 .00818 .00610 .00430

ORTHINAI PAGNIN

CA20 747/1 02 Si CARRIER DATA (AGN138) ( 0) DEC 75 )

			CAZO	747/1	02 51	C	WHITH DYI		TACKIS	M) (0) D	t to 1
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF =	5500.0000 SQ.F. 327.7800 IN. 2348.0400 IN. .0300	T. XHRP YHRP ZHRP	= .00	80 IN.XC 80 IN.YC 80 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAD = DX =	4.000 .000 5.000 .000	BETAC = ELV-08 = HACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO.	731/ 0	RN/L -	3.29 GRA	DIENT INTER	VAL = -1.0	10/ 4.00			
ALPHA0 10.438 10.439 10.441 10.446 10.464 10.475	DZ -1.917 1.309 5.640 13.089 28.151 43.272 47.051 GRADIENT	MACH .60030 .60060 .60080 .60080 .59990 .59910	DX 10.65750 10.63520 10.33640 9.83100 8.79230 7.75180 7.49000	0Y 9.96490 9.95920 9.95380 9.96040 9.96980 9.96720 9.96650 00000	BETAO .01980 .02020 .01960 .01540 .00380 00320 00500	PHI .0000 .0000 .0000 .0000 .0000 .0000	ALPHAH 5.85620 5.85440 5.85330 5.84330 5.83680 5.82680 5.82660	BETA .05980 .05800 .07270 .06110 .07070 .05640 .05450	CY01590014000164002050026300218002050	CLR 00780 00578 00250 .00170 .00790 .00670 .00610	CSL .00796 .00668 .00520 .00370 .00110 .00020 .00010
			CA20	747/1	05 2I	c	ARRIER DATA	•	EIMOAI	8) { 01 DE	EC 75 1
	REFERENCE	DATA						1	PARAHETRIC	DATA	
LREF =	560.0000 SQ.F1 327.7800 IN. 348.0480 IN. .0300	7. XURRP YMRP 2784P	00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = ELY-08 = HACH = PHI = OY =	5.000 3.000 .500 .000
		RUN NO.	729/ 0	RN/L =	3.25 GRAD	DIENT INTER	VAL = -1.0	0/ 4.00			
ALPHAO 10.550 10.536 10.535 10.534 10.539	DZ -1.816 1.291 5.717 13.051 28.194	MACH .60090 .59920 .60090 .59980 .59940	0X .88480 .67090 .37070 13060	0Y 8.78140 8.78380 8.78850 8.79650 8.80860	BETAO .04000 .03380 .02850 .02100 .00820	PHI .00000 .00000 .00000 .00000	ALPHAH 5.83180 5.82790 5.82240 5.81730 5.80400	BETA 5.12510 5.11980 5.10560 5.09230 5.09540	CY 11570 11720 12230 12660 12860	CLN .00748 .01290 .01980 .02580 .03060	CSL 00490 00690 00900 01120 01360
10.533	43.343	.60000	-2.19520	8.81680	.00080	.00000	5.79690	5.10330	12510	.03040	01450

.00000

.00000

GRADIENT

.00000

.00000

.00000

.08000

.00000

.00000

.00000

.00000



ATE 01 DE	C 75	Tablal	ATED SOURCE	DATA - CA	20					PAC	E 189
			CAED	747/1	02 SI	c	ARRIER DATA	<b>L</b>	(AGN14	G) ( D1 DE	C 75 )
	naferatus	ENTA							PARAHETRIC	DATA	
	200.0000 <b>5</b> 0.60	i. ime	• 1990.90	DX.NI CCC				ALPHAC =	4.000	BETAC =	5.006
	227.7200 IN.	าน เมื่อ		OD IN.YC				ELV-IB =	.000	ELY-OB =	3.009
	ENO.ENED IN.	ZHRP		39 IN.20				ELEVON =	5.000	HACH =	.500
ellare Sale	.CZOD	4,84	- 12510					BETAO =	.000	PHI =	.000
م منسلام	.c.ub							DX =	10.000	DY •	10.000
		Una ta	. 733/ 0	CIVL =	3.26 GRA	DIENT INTER	RVAL1.0	10/ 4.00			
ZLFHAD	CZ	MACH	ОX	DA	BETAG	PHI	ALPHAH	BETA	CY	CLN	CSL
18.453	-1.621	.60340	10.03520	7.59920	.03540	.00006	5.85460	5.01710	10790	.00740	+.006
10.00	1.631	.00000	10.62320	7.54600	.03110	.00000	5.85280	5.01310	-,10890	.01160	008
10.423	5.640	.60050	10.32500	7.95330	.07550	.00000	5.84960	4.99866	11560	.01960	009
10.973	13.091	.60000	9.01010	7.95780	.01940	.00000	5.84150	4.99280	12220	.02500	011
10.420	£3.314	.60000	8.77030	7.05920	.00880	.00088	5.63440	4.99560	12610	.03020	013
10.433	43.187	.60050	7.74450	7.97620	.00050	.00000	5.82840	4.99600	12270	.02970	014
10.479	47.015	.60000	7.57410	7.97880	00120	.00000	5.83180	4.99630	12140	.02948	014
10.475	GRADIENT	.00800	.00800	.00000	.00000	.00000	.00000	.00000	.00000	.00800	.000
			CAES	747/1	01 51	Ć	CARRIER DATA		¢AGN14	113 COLD	EC 75 )
	reference	DATA							PARAMETRIC	DATA	
	iioo.oors s <b>a.</b> f	T. 1908	1270 C	989 IN.XC				ALPHAC =	4.000	BETAC =	.000
	227.7200 IN.	YMC		000 111.40				ELV-18 =	10.000	ELY-08 =	13.000
	END.CHOD IN.	ZNEP		000 IN.2C				ELEVON =	5.000	HACH =	.600
CALE -	.0200	చ్చి	- 123.0					BETAO =	.000	PHI =	.000
:LALC 0	. 6200							DX =	.000	DY =	.000
		RUN NO	. 707/ 0	RN/L =	3.25 GRA	DIENT INTE	RVAL .	00/ 12.00			
AL PHAO	DZ	MACH	OX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.523	-1.664	.60088	.87920	01420	.01180	.00000	5.83190	.00050	00970	.00060	.00
10.554	.978	.59910	.68440	01208	.01100	.00000	5.83240	.00020	00980	.00090	000
10.501	5.523	.59930	.37690	01360	.01060	.00000	5.82540	. 60740	01010	.00150	00
10.504	13.055	.59950	13559	08840	.00810	.00000	5.01690	00060	01020	.00190	00
				00310	.00260	.00000	5.80490	.00670	01086	.00240	80
	38.HU2	.23920	-1.15670	00510	. 10500	. 60000	9.00130				
10.516	38.002 42.970	.59950 .59980	-2.18400	.00060	.00280	.00000	5.79720	00120	01090	.00260	001

CARRIER DATA

(AGN141) ( D1 DEC 75 )

CA20 747/1 01 51

	REFERENCE	DATA							PARAMETRIC	DATA	
LREF -	509.6000 SQ.F 327.7800 IN. 348.6400 IN. .0300	T. XHRP YMRP ZHRP	00	000 IN.XC 080 IN.YC 000 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.009 10.000 5.000 .000	BETAC = ELV-OB = HACH = PHI = DY =	.626 13.000 .600 .008
		RUN NO	. 708/ 0	RN/L =	3.19 GR	ADIENT INTER	VAL = .0	0/ 12.00			
ALPHAO i4.811 14.784 14.771 14.765 14.762 14.773	02 .024 3.045 7.498 14.984 29.993 45.117	MACH .68020 .59940 .59909 .68039 .59970 .68060	DX 26990 47840 78610 -1.29790 -2.32360 -3.36230	0Y 01340 01140 01170 00650 .00060	BETAO .00790 .00760 .00750 .00470 .00060	PHI .00000 .00000 .00000 .00000 .00000	ALPHAX 5.86260 5.85360 5.85370 5.83350 5.81920 5.80590 00120	BETA 00700 00050 00070 00790 00140 00140	CY 00950 01020 01060 01190 01150 00027	CLN 00020 .00110 .00160 .00120 .00270 .00270	.000%9 .000%9 .00020 00020 00070 00070
	GRADIENT	08016	06907	.00021	00005	.00000	05160	.0000	-,60027	.00023	
			CY50	747/1	01 51	C	ARRIER DATA		(AGN14	2) (010	EC 75 1
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF .	500.0000 SQ.F 327.7800 IN. 349.6400 IN.	T. XMRP YHRP ZMRP	= .01	068 1N.XC 080 1N.YC 080 1N.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.900 -10.000 5.000 .000	BETAC = ELV-OB = HACH = PHI * DY =	.000 -7.000 .500 .000
		RUN NO	. 709/ 0	AN/L =	3.26 GR	ADIENT INTER	VAL = .C	12.00			
ALPHAO 10.510 10.492 10.408 10.491 10.501	DZ -2.321 .765 5.227 12.822 27.760 42.754 GRADIENT	HACH .59970 .59940 .60050 .60020 .60030 .59920	0X .91020 .70150 .40050 11430 -1.13010 -2.15880 05746	DY 01830 01330 01330 00340 00220 .00000	BETAO .01330 .01170 .01100 .00900 .00300 .00320 ~,00016	PH1 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.87430 5.87190 5.85650 5.85660 5.84560 5.84080 00114	9ETA 00070 00110 00180 00190 .00540 .00530 00011	CY011600114001180012600124000009	CLN .00130 .00180 .00240 .00280 .00330 .00340	252. 25000 25000 25000 25000 25000 270000
		RUN NO	. 710/ 0	RN/L =	3.22 GA	ADIENT INTER	. = LAVI	10/ 12.00			
ALPHAO 14.080 14.055 14.043 14.033 14.032 14.032	.715 3.826 8.814 :5.830 30.666 45.837	MACH .59990 .60000 .59990 .59990 .60070	0X 33240 54650 ~.64750 -1.36650 -2.37840 -3.41720	0Y 01950 01550 01270 00680 .00350	867A0 .00930 .00790 .00700 .00540 .00040	PH1 .00000 .00000 .00000 .00000	ALPHAN 5.90190 5.89770 5.89190 5.67920 5.66080 5.64960	BETA 00850 00950 00240 00950 .00500 00250	CY 01080 01200 01310 01310 01280	CLN .00890 .00200 .00280 .00280 .00360	CSL .00020 .00008 00030 00060 00080
	GRADIENT	00000	06869	.00089	00018	.00000	00133	.03887	~.00939	.00025	69997



DATE OI DEC 75

GRADIENT

TABULATED SOURCE DATA - CA20

-.06850

.00001

.00034

-.00010

.00000

-.00206

.00093

.00004

.00007

-.00004

PAGE 191 CA20 747/1 01 St CARRIER DATA (AGN143) ( 01 DEC 75 ) PARAMETRIC DATA REFERENCE DATA SREF \* 5500.0000 SQ.FT. XHRP = 1339.9000 IN.XC ALPHAC = 4.000 BETAC = .000 LREF = 327,7800 IN. YHRP .0000 IN.YC RUD-U -15.000 RUO-L . 15.000 BREF = 2348.0400 IN. ZMRP = 190.8080 IN.ZC ELEVON \* AILRON = 5.000 .000 SCALE = BETAO = .0300 PHI .000 .000 DX .000 DY .000 RUN NO. 711/ 0 RN/L = 3.26 GRADIENT INTERVAL . .00/ 12.00 ALPHA0 DZ HACH DΧ DY BETAO PHI ALPHAH CY CSL. BETA CLN .08910 10.504 -2.028 .68840 .90180 -.00790 .08000 5.83170 .02080 .02950 -.02180 .0021E .931 .60010 .70250 -.00660 .00820 .00000 5.83280 10.485 .02910 .03110 -.02240 .00210 10.480 5.560 .59930 .38950 -.00470 .00730 .00000 5.82470 .02230 .03380 -.02340 .00210 .60080 -.11148 -.00170 .00580 .00800 5.81624 -.02410 10.486 12.957 .02310 .03550 .00200 10.495 27.693 .59980 -1.12660 -.00090 .00160 .00000 5.80430 .03860 .03630 -.02420 .00170 .60040 -2.16480 .00170 .00120 .00000 5.79700 .03740 10.513 42.996 .03140 -.02470 .00190 GRADIENT -.00017 -.06762 .00041 -.00019 00000 - 00175 -.00147 .00058 -.00022 .00000 RUN NO. 712/ 0 GRADIENT INTERVAL = PN/L · 3.23 .00/ 12.00 **ALPHAO** DZ HACH DΧ DY BETAO PHI **ALPHAH** BETA CY CLN CSL 14.850 .267 .59970 -.28590 -.00380 .00380 .00000 5.86580 .01490 .03380 -.02430 .00290 5.85000 14.835 3.331 .60060 -.49550 -.00180 .00300 .00000 .02250 .03420 -.02400 .00270 7.773 .59990 -.88040 -.00110 .00300 .00000 5.85840 14.823 .02240 .03410 -.02380 .00260 15.438 .60080 -1.32290 .00080 .00190 .00000 5.03870 14.816 .02460 .03870 -.02600 .00260 14.812 30.319 .60000 -2.33750 .00670 -.00120 .00000 5.02090 .02360 .03710 -.02470 .00200 14.814 45.332 .60030 -3.36420 .00880 -.00280 .00000 5.80920 .03150 .03740 -.02480 .00200 02 51

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

			CYSD	747/1	01 S1		CARRIER DA	TA	CAGNIT	B) (OID	EC 75 1
	REFERE	ENCE DATA							PARAHETRIC	DATA	
	5500.0000 5			000 IN.XC				ALPHAC =	4.000	BETAC .	. DOQ
LREF =	327.7800 1	in. YHRP	.01	BOO IN.YC				ELV-18 =	.000	ELV-08 =	3.000
BREF = 8	2348.0480 1	IN. ZHRP	= 190.8	DDD IN.ZC				ELEVON =	10.000	HACH =	.600
SCALE =	.0300							BETAO w	.600	PHI •	.000
								DX -	.000	DY #	.803
		RUN NO	. 714/ 0	RN/L =	3.32	GRADIENT INTE	RVAL = .	.00/ 12.00			
ALPHAO	DZ	HACH	DX	DY	BETA	O PHI	ALPHAH	BETA	CY	CLN	CSL.
10.553	-1.753	.60000	.91190	01320	.011	60 .00000	5.64170	.00730	01060	.00100	00026
10.538	1.319	.59950	.70500	01080	.010	60 .60000	5.84200	00080	01070	.00140	00038
10.533	5.976	.59920	.39120	00710	.008	BO .00000	5.83500	00140	01130	.00220	00056
10.546	13.370	.59940	11340	00420	.007	10 .00000	5.82500	00930	01130	.00250	00060
10.559	28.434	.59990	-1.13730	00290	.002	30 .00000	5.81090	.01370	01110	.00270	00090
10.566	43.399	.60049	<del>-</del> 2.16039	.08340	.001	60 .00000	5.80210	00170	01090	.00270	00090
	GRADIENT	00006	06738	.00079	000	00000. 85	00150	00013	00013	.00017	00004
		RUN NO	. 715/ 0	RN/L =	3.26	GRADIENT INTER	RVAL = .	.00/ 12.00			
ALPHAO	DZ	HACH	οx	DY	BETA	0 PHI	ALPHAH	BETA	CY	CLN	CSL
14.836	.243	.60050	21980	.00160	.006	40 .00000	5.87510	00800	00900	.00020	.00026
14.814	3.412	.59960	43820	.00680	.006	00000. 00	5.87140	00B30	+.00930	.09070	00018
14.803	7.911	.60000	74500	.00770	.005	00000 .	5.86270	.00550	01060	.00150	00020
14.796	15.416	.60060	-1.25670	.01250	.004	00000. 00	5.84880	00140	01090	.00210	00050
14.790	30.262	.60080	-2.27070	.01570	000	00000.	5.82830	00970	01170	.00290	00070
14.791	45.331	.59950	-3.30390	.01700	002	59 .00009	5.81480	00190	01130	.00290	00050
	GRADIENT	00005	06847	.00076	000	16 .00000	00164	.00198	00021	.00017	~.00005

			CA2	0 747/1	01 51		0.00100 0.				
					0, 3,		CARRIER DA	IA.	(AGN)	47) (0) 0	EC 75 1
	REFEREN	CE DATA							PARAHETRI	C DATA	
SREF = LREF = BREF = SCALE =	5580.0000 SQ 327.7800 IN 2348.0400 IN .0300	· YHR	• •	3080 IN.XC 1800 IN.YC 3000 IN.ZC				ALPHAC = ELEVON = BETAO = DX =	4.000 .000 10.000 .000	BETAC = ELV-09 = HACH = PHI = DY =	.008 3.000 308 .000
		RUN NO	. 717/ 0	RN/L =	1.89	GRADIENT INTE	TRVAL .	.00/ 12.00			
ALPHA 10.141 10.136 10.135 10.139 10.139	-2.619 .296 4.672 12.202 26.995	MACH .29950 .29970 .30050 .29250 .29920 .30030	0X .81180 .61310 .30110 20310 -1.21700 -2.26320 06820	000220 .00380 .00390 .00500 .00550 .00710	967A0 .00361 .00261 .00166 .0010 00036	00000. C 00000. C 00000. C 00000. C	ALPHAN 5.83780 5.83750 5.83370 5.82540 5.81450 5.80760 00083	BETA 01830 01850 01870 01990 01120 01130 00004	CY 01370 01420 01460 01470 01520 01560 00009	CLN .09109 .09150 .00250 .00320 .00370 .00370	CSL .00998 00910 09950 09950 00990
			CVS0	747/1	OI SI		CARRIER DATA	A	(AGN14	B) (01.0E	C 75 1
	REFERENC	E DATA							PARAMETRIC	DATA	
LREF .	5509.8090 50.1 327.7899 IN. 2348.0409 IN. .0300	FT. XMRP YMPP ZMRP	00	800 IN.XC 800 IN.YC 800 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = OX =	4.000 000 10.000 000 000	BETAC = ELY-OS = HACH = PHI = DY =	.000 3.006 .700 .000
		RUN NO.	716/ 0	RN/L =	3.54 G	RADIENT INTER	IVAL = .0	30/ 12.00			
ALPHA0 10.694 10.676 10.669 10.672 10.678 10.687	DZ -1.671 1.362 5.761 13.248 28.136 43.386 GRADIENT		0X 1.09630 .89310 .50890 .00210 -1.01140 -2.04590 08688	0Y 00550 00020 .00080 .00210 .00480 .00670	BETAO .00800 .00550 .00430 .00320 00150 00027	6HI .00000 .00000 .00000 .00000 .00000	ALPHAH 5.84060 5.84050 5.83300 5.82130 5.80840 5.79430 00170	BETA .00160 00850 .00040 00760 01510 00790 .00157	CY 00790 00760 00820 00840 00760 08870 00014	CLN .00020 .00060 .00130 .00170 .00170 .00210	CSL .00029 00029 00040 00050 00050



DATE OI D	EC 75	TABUL	ATED SOURCE	DATA - CA	120					PA	OE 195
٠			CA20	747/1	01 51	c	ARRIER DATA		(AGN14	9) (010	EC 75 1
	REFERENCE	DATA							PARAHETRIC	DAŤA	
SREF = 5	5500.0000 SQ.F	T. XHRP	<b>=</b> 1339.9	000 IN.XC				ALPHAC =	4.000	BETAC -	.888
LREF =	327.7800 IN.	YHRP	<b>-</b> .0	000 IN.YC				RUD-U =	.000	RUO-L -	.000
BREF = 2	2348.0400 IN.	ZHRP	= 180.8	000 IN.2C				ELEVON =	5.000	AILRON =	-18.000
SCALE .	.0308							BETAO .	.800	PHI =	.000
								DX =	.000	DY -	.009
		RUN NO	. 722/ 0	RN/L =	3.33	GRADIENT INTER	YALC	12.00			
ALPHAO	OZ	HACH	DX	DY	BETAO	PHI	<b>ALPHAH</b>	BETA	CY	CLH	CSL
10.503	-2.010	.59960	.89090	.25100	0865	00000.	5.65820	.01850	01760	00220	.00496
10.487	1.016	.60000	.68580	.25740	0905	00000.	5.85620	.81730	01800	00090	.00410
10.482	5.470	.60080	.38360	.26120	0937	00000.	5.85130	.01560	02000	.00890	.00340
10.481	12.919	.59940	12140	.26800	~.0981	00000.0	5.84070	.00120	03020	.00820	.00160
10.494	28.155	.59980	-1.16420	.27880	1076	00000.	5.02880	.01190	03440	.01330	00093
10.501	42.980	.60060	-2.17720	.28710	1103	00000.	5.02100	.00898	02250	.00820	00090
	GRADIENT	.00000	06809	.00085	0007	2 .00000	00110	00038	08045	.00040	~.00016
		RUN NO	. 723/ 0	RN/L =	3.28	GRADIENT INTER	RVAL = .C	12.00			
ALPHAO	DZ	MACH	DX	DY	BETAD	PHI	ALPHAN	BETA	CY	CLN	CSL
14.792	. 127	.60030	27480	.24900	~.0972	000000	5.88590	.01450	00930	00670	.00460
14.780	2.855	.59940	46850	.25950	0984	00000.	5.88230	.01270	01220	00470	63190.
14.769	7.573	.59960	79580	.26120	1000	0 .60000	5.07690	.02520	01668	00140	.00390
14.755	15.007	.68020	-1.29790	.26930	1059	000000	5.86080	.01260	02380	.00+10	.00318
14.753	30.023	.69080	-2.32950	.28280	1123	00000.	5.84740	.00450	03500	.01290	.00029
14.748	45.656	.63010	-3.35330	.28550	- 1138	00000.	5.83310	.00650	02810	.01080	00080
	GRADIENT	00000	05991	.00150	6003	7 .00000	00119	.00157	00098	.00071	00019

17.238

GRADIENT

-4.87480

.01009

.00540

.00660

.00107

CAZO 01 52 53 ORBITER DATA (BGN001) ( 20 JAN 75 1 REFERENCE DATA PARAMETRIC DATA SREF = 2690.0860 SQ.FT. XMRP = 1109.0000 IN.XO ELEVON = 5.000 AILRON --000 LREF # 474.8100 IN. YHPP = .0800 IN.YO BETAD --5.000 PHI -.000 BREF - 936.6800 IN. ZMRP = 375.0888 IN.ZO SCALE = .0300 RUN NO. 576/ 0 RN/L = 1.91 GRADIENT INTERVAL = .00/ 12.00 HACH **ALPHAD** BETAG PHI Q(PSF) CL œ CLH CY CLN CSL .299 4.091 -5.07970 .00000 125.22060 .25280 .03770 -.02020 .06460 .01620 -.00640 .289 6.115 -5.06650 .00000 125.22070 .34710 .04850 -.01550 .05700 .01570 -.08470 .299 8.152 -5.04550 .00000 125.07500 .44490 .06240 -.01240 .06650 .01570 -.09269 .299 10.203 -5.01B10 .00000 125.36630 .54460 .08170 -.00820 .06470 .01590 .08020 .299 12.243 -4.99370 .00000 125.07460 .64230 .10590 -.00380 .06370 .01520 .00320 .300 14.294 -4.94400 .00800 125.80350 .74160 .13930 .00230 .06160 .01540 .00440 .300 16.335 -4.69880 .00000 125.94970 .84420

RUN NO. 577/ 0 RN/L = 2.81 GRADIENT INTERVAL = .00/ 12.00

.00000 125.07500

.01436

.00000

MACH	ALPHAO	BETAO	PHI	G(PSF)	CL	CD	CLM	CY	CLN	CSL
.481	4.165	-5.21290	.00000	293.67830	.26470	-03910	+.02370	.07860	.01620	00660
.480	6.247	<del>-5</del> .19580	.00000	293.13970	.36030	.05060	01640	.07140	.01540	00470
.489	8.338	~5.17388	.00000	292.86970	.46480	.06490	01498	.07130	.01490	00236
.460	10.417	<del>-</del> 5.14310	.00080	292.46310	.57169	.08570	01170	.06890	.01530	.00100
.480	12.496	<del>-</del> 5.16510	.00000	292.59760	.67380	.11680	~.08400	.08800	.01440	.00370
.479	14.585	-5.06340	.08000	222.65646	.77850	. 15580	.00530	.06530	-01490	.00510
.481	16.675	-5.01210	.00000	293.54200	.68120	.22000	.00930	.06820	.01300	.00066
.479	17.643	-4.95530	.00000	292.19150	.92420	.25130	.01040	.06590	.01370	.00070
	GRADIENT	.01117	.00000	16827	.04933	.00756	.00188	00025	00015	.00121

.89140

.04778

.18080

.20248

.00715

.00890

.01030

.00192

\*020BD

.05970

-.00001

.01550

.01480

-.88884

DATE OF DEC 75	TABULATED SOURCE D	ATA - CA20		外党 銀7
	CYSO	01 52 53	ORBITER DATA	1 ST HAL (S ) (\$30H08)
REFERENCE DA	ATA			PARAMETRIC DATA
SREF * 2690.0000 SQ.FT. LREF * 474.8100 IN. BREF = 936.6800 IN. SCALE * .0300	XMRP = 1109.0000 YMRP = .0080 ZMRP = 375.0080	IN.YO	ELEVON BETAD	5.080 AILRON =000 .000 PHI = .000
	RUN NO. 575/ 0	RN/L = 1.89 GRADIE	17 INTERVAL * .00/ 12.00	
HACH ALPHAO	BETAO PHI	Q(PSF) CL	CD CLH CY	CLH CSL
.299 4.060	00670 .00000	125.51340 .24410		03500 06000. 0850
.300 6.109	00680 .00000	125.95090 .34020	.0506001350 .00	03500 05100. 0420
.300 0.127	00670 .00000	125.80530 .43750	.0633001090 .00	06200 00100. 0650
.299 10.162	00800 .00800	125.36760 .53730	.0816000790 .00	08000011000300
.301 12.189	00620 .00000	126.38780 .63400	.1058000010 .00	3500 .0015003270
.299 14.240	00540 .00000	125.22150 .73610	.13850 .00620 .00	1450 .0013000240
.299 16.274	00470 .00800	125.51330 .04260	.17990 .00930 .00	1290 .0017000150
.300 17.062	00450 .00000	125.65910 .88460	.19910 .01070 .00	0270 .0017000160
GRADIENT	.00005 .00000	02650 .04806	.00551 .00152 .00	70000 20000. 2000
	CAZD	01 52 53	ORBITER DATA	(BGN003) ( 20 JAN 75 )
REFERENCE DA	ATA			PARAMETRIC DATA
SREF = 2690.0000 SQ.FT.	XHRP = 1109.0000	IN.XO	ELEVON =	5.000 AILRON800

SREF LREF BREF SCALE	•	2690.0000 474.8100 936.6800 .0300	IN. IN.	YHRP	-	1109.0000 .0000 375.0000	IN.	YO					ELEVON BETAO	5.000 .000	AILBON PHI	•	.000
				PIN NO	57	121 U B	W. 41	_	3 20	/S'ABIENT	INTERVAL	_	004 12 00				

_										
HACH	ALPHAO	BETAO	PHI	Q(PSF)	CL	CD	CLH	CY	CLN	car
.601	089	.00220	.08880	421.01010	.08710	.03000	+.84028	.00090	00080	00120
.599	4.257	.00390	.00000	419.65190	.27800	.04710	01320	00140	.00020	00140
.680	6.613، ت	.00410	.00000	421.01800	.29460	.04890	01180	00160	.00030	00150
.599	5.242	.00340	.00000	419.77250	.32570	.05210	01050	00140	.00030	00160
.680	6.343	.00370	.08880	420.39910	.38280	.05920	00850	00170	.00950	00178
.601	8.514	.00340	.00000	421.14230	.49370	.07800	00260	00180	.00060	00170
.599	10.610	.00360	.00000	419.52380	.59710	.10260	.00900	00240	.00090	00100
	GRADIENT	00805	.00000	02312	.05050	.00864	.00327	00014	.00010	.00005

ORIGINAL PAGE IS OF POOR QUALITY

CAPO 01 52 53 ORBITER DATA (BONDO4) ( 20 JAN 75 )

> REFERENCE DATA PARAMETRIC DATA

SREF = 2890.0000 SQ.FT. XMRP = 1109.0000 IN.XO ELEVON = 5.000 AILRON -.000 .000 PH1 • .000 .0000 IN.YO BETAG = LREF = 474.8100 IN. YHRP =

RUN NO. 574/ 0 RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00

BREF - 936.6800 IN. ZMRP - 375.0000 IN.ZO SCALE = .0390

A service of the serv

MACH	ALPHAO	BETAO	PH1	Q(PŚF)	CL	CD	CLM	CY	CLN	CSL
.601	4.223	01610	.00000	421.09510	.27050	.04500	01810	.00380	.80090	00230
.601	8.337	01570	.00000	421.46490	.36930	.05820	01050	.00360	.00100	00250
.601	8.463	01510	.00000	421.47120	.47790	.07550	88459	.00460	.00080	00270
.601	10.562	01560	.00000	421.34220	.58320	.10080	.00570	.00360	.00110	00190
.599	12.700	01548	.00800	419.72320	.69680	.13880	.01410	.00220	.00190	00200
.601	14.797	01520	.00000	421.09510	.78020	.16130	.01770	.00510	.00060	00280
.609	16.872	01560	.00000	420.59770	.87110	. 15570	.01350	.00530	.00050	00220
.599	17.711	01940	.00800	419.72470	.91550	.14950	.00700	.00530	.00080	00240
	GRADIENT	.00010	.00000	.03544	.04951	.00879	.00368	00001	.00002	.00005

ORBITER DATA (BCH005) ( 20 JAN 75 ) CYSO 02 52 53

PARAHETRIC DATA REFERENCE DATA

.000 SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO ELEVON = 5.000 AILRON =

BETAG = -5.000 PHI = .608 LREF = 474.8100 IN. YHRP = .0000 IN.YO

BREF = 936,6800 IN. ZMRP = 375.0000 IN.ZO

.0300 SCALE .

RUN NO. 578/ 0 RN/L = 2.87 GRADIENT INTERVAL = .00/ 12.00

MACH	ALPHAO	BETAO	PH1	Q(PSF)	CL.	CD	CLH	CY	CLN	CSL
.479	4.174	-5.19730	.08060	291.63840	.25370	.07110	00780	.07410	.01080	00429
.480	6.255	-5.18090	.00000	292.44810	.34870	.08220	00220	.07350	.01040	00218
.480	8.34B	-5.15870	.00000	292.7:250	.44710	.09770	.00+00	.07380	.00990	.00020
.480	10.422	-5.12870	.00000	292,71830	.54850	.11900	.01010	.07250	.08940	.00310
.479	12.509	-5.09190	.00000	292.04200	.65370	. 14690	.01520	.07120	.00880	.00570
.480	14.504	-5.05140	.00000	292.99720	.76430	.18420	.02210	.06910	.00930	.00680
.479	16.697	~5.00170	.00000	292.17780	.86650	.24720	.02380	.07410	.00730	.00120
.479	17.586	~4.97870	.00000	292.17720	.90650	.27560	.02560	.07199	.00810	.00130
	GRADIENT	.01094	.00000	. 16856	.04717	.00764	.00283	00022	00023	.00115

DATE DI DEC 75

.599

17.522

GRADIENT

-.00820

.00048

TABULATED SOURCE DATA - CA20

.00000 419.01690

.00000

.07094

PAGE 196

-.00150

.00000

.00120

.00010

.00140

-.00028

DATE DI DEC 75	TABULATED SOURCE DAT	ra - cazo						PALE 1986
	CA20	0 <del>3</del> 52 5	i3	ORBITER	DATA		(BGN008)	20 JAN 75 1
REFERENCE O	DATA					PA	RAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 1109.0000	IN YO			ELEV	ON =	5.000 AILRO	900. = JK
		IN.YO				0 =	.000 PHI	508
LREF = 474.8100 IN. BREF = 936.6800 IN.	ZMRP = 375.0000	-				- <u>-</u>		
SCALE = .0300	214 - 3.3.5566							
30AEE - 10300								
	RUP. NO. 500/0 RF	W/L = 2.85	GRADIENT	INTERVAL =	.00/ 12	2.00		
HACH ALPHAO	BETAO PHI	Q(PSF)	CL	CD	CLH	CY	CLH	CSL.
.480 4.159	00970 .00800	292.58320	.25400		00820	.00310	.00090	00246
.480 6.223	00800 .00800	293.12360	.34920	.08150 -	09270	.00260	.00090	00230
.481 8.306	00000. 00000	293.52750	.45010	.09550	.00190	.00290	-00100	00270
.480 10.404	00670 .00000	292.31290	.55460	.11610	.00790	.00160	.00110	00230
.480 12.487	00660 .00000	293,12230	.65530	.14370	.01700	.00110	.00150	00200
.480 14.551	00500 .00000	292.98850	.76250	.18150	.02380	.00060	.00160	00190
.479 16.629	00540 .00000	291.63980	.87070	.24400	.02500	.00830	00050	00530
.480 17.347	00440 .00000	292.44870	.89940	.26990	.02660	.00430	.00030	00510
GRADIENT	.00000. 14000.	02021	.04816	.00594	.80254	00017	.00805	~.00300
	RUN NO. 579/ 0 R	N/L = 3.36	GRADIENT	INTERVAL =	.00/ 18	2.00		
HACH ALPHAO	BETAO PHI	Q(PSF)	CL		CLH	CY	CLN	CSL
.599 4.252	01100 .00000	418.77280	.26500	.07390 ·	00848	.00250	.00070	00240
.599 6.355	01060 .00000	418.77130	.36540		00360	.00230	.00020	00220
.599 8.455	00860 .00000	418.77130	.47430	.10020	.00020	.00130	.00110	00230
.600 10.572	00830 .00800	419.27010	.58270	.12350	.09760	.02090	.00130	00186
.600 12.711	00000. 08680	419.64220	.69710	.16080	.01430	00050		001BG
.600 14.811	08640 .00000	419.51870	.70260	.21870	.02040	.00140		00260
.600 16.885	08770 .00088	419.88940	.87160	.24520	.01720	.00130		00180
	00000 00000	0.50 0.500	00110	Shires	01210	00160	00120	- DOLSO

.90110

.05042

.24450

.00783

.01310

.86246

ORIGINAL PAGII IS OF POOR QUALITY

.601

.600

19.013 -5.17300

21.153 -5.14920

-.00069

GRADIENT

.008

CA20 OI SI ORBITER DATA (BONGOT) ( 20 JAH 75 )

#### REFERENCE DATA

#### PARAMETRIC DATA

		HEFERENCE O	AIA						PA	RAPETRIC DATA	
LREF	= 474. = 936.	.0000 SQ.FT. .0100 IN. .6800 IN. .0300	YH <del>YY</del> P	= 1109,000 = .000 = 375.000	O IN.YO				EVON =	5.000 AILEC -5.000 PHI	2H = .
			RUN NO.	603/ O F	RN/L = 2.00	GRADIENT	INTERVAL	00/	12.00		
	HACH	ALPHA0	BETAG	PHI	Q(PSF)	CL	CD	CLH	CY	CLN	CSL.
	.300	4.045	-5.06290	.00000	126.54920	.26110	.03430	03460	.04690	.01530	00670
	.299	6.093	-5.07100	.00000	125.95630	.35200	.04440	02988	.04720	.01570	00540
	.299	8.123	-5.07300	.00000	126.11250	.44320	.05940	02170	.04700	.01630	00350
	.300	10.174	-5.06880	.00000	126.54970	.54410	.07750	02010	.04580	.01650	00040
	.300	12.220	-5.05770	.00000	126.54960	.64100	.10120	01360	.04460	.01650	.00260
	.299	14.238	-5.04120	.00000	126.25780	.73690	.13260	00390	.04400		.00380
	.300	16.301	-5.01828	.00000	126.54970	.64220	. 17290	.00140	.04230	.01750	.00580
	.301	:8.356	-4.98840	.00000	127.42390	.94870	.22170	.00660	.03970	.01750	.00920
	.299	20.373	-4.95300	.00000	126.11200	1.04900	.27680	.01190	.03590	.01890	.01200
		GRADIENT	00096	.00000	.00739	.04603	.00703	.00253	08017	.00019	.00102
			RUN NO.	604/ O R	N/L = 3.41,	GRADIENT	INTERVAL	.00/	12.00		
	HACH	ALPHAD	DETAD	PHI	Q(PSF)	CL	CD	CLH	CY	CLN	CSL
	.600	4.178	-5.24280	.00000	423.48480	.25030	.04028	~.02660	.05110	.01510	00720
	.688	6.295	-5.25310	.00000	423.61630	.37150	.04930	03010	.05150	.01550	00540
	.601	8.427	-5.25390	.00000	424.11040	.48160	.06640	02640	.05040	.01580	00230
	.600	10.623	-5.24760	.00000	423.24160	.59980	.09100	02470	.04910	.01610	.00150
	.601	12.689	-5.23570	.00800	423.98610	.70980	. 12390	01780	.04770	.01640	.00360
	.691	14.810	-5.22000	.00000	423.86490	.80220	.17810	01440	.05200	.01620	00250
	.599	15.845	-5.21250	.00000	422.24470	.84910	.20750	01410	.05260	.01700	00330
	.601	16.884	-5.20230	.00800	423.86340	.89530	.24090	01510	.05200	.01780	00320

.99040

.05286

1.09090

.31420

.39000

.00791

-.01759

-.01400

.00044

.05140

.05630

-.00033

.01830

.01890

.00015

-.00040

-.00190

.00136

.00000 424.10410

.00000 422.98760

-.01190

DATE 01 DEC 75

TABILLATED SOURCE DATA - CARD

DATE OF DEC.	75	I RESIDENT	FO SOURCE D	MTA - CAE	20					PAGE	281
			CVSO		01 51	08811	ER DATA		(BGN008	1 20 JUN	75 z
	REFERENCE C	DATA						PA	WAHETRIC I	DATA	
	.0800 <b>SQ</b> .FT.	хияр (	1109.000	0 IN.XO			EL	EVON =	.080	AILRON =	. 000
	.8100 IN. .6800 IN.	YMRP •		0 IN.YO 0 IN.ZO				- OAT		PHI =	.000
SUALE *	.0300										
		RUN NO.	614/0	RN/L =	3.26 GRADIEN	IT INTERVAL	00/	12.00			
HACH	ALPHAO	BETAO	PHI	QIPS	F) CL	CD	CLH	CY	CLN	CSL	
.601	4.204	.01530	.00000	423.962		.04000	.03630	00130			1
.600	6.291	.01390	.00000	423.59!		.04500	.03980	00190			
.600	8.408	.01220	.00800	423.467		.05680	.04330	00210			
.600	10.522	.00900	.00000	422.848		.07420	.04750	00190	0002		
.599	12.651	.00610	.00000	422.593		.10280	.05270	00270	.0008	3000150	1
.599	14.758	.00570	.00000	422.345		. 15240	.05200	.00080	0009	00210	)
.599	16.848	.00370	.00000	422.477		.21230	.04890	.00190	0010	1000250	1
.600	18.960	.00240	.00000	423.717		.28730	.03840	.00040	0002	0.00130	}
.600	21.690	.00300	.00000	423.720		.37000	.03150	00140	.0005	60 <b></b> 00060	)
	GRADIENT	00098	.00000	164	54 .05183	.00543	.00176	00009	.0002	2500009	)
			CAZO	·	)1 SI	ORBITE	R DATA		(BGN009)	. NYT 02.)	75 J
	REFERENCE DA	ATA						PAI	RAHETRIC D	ATA	
SREF = 2690.	.0000 SQ.FT.	XMRP =	1169.0000	IN.XO			ខាន	VON =	5.000 A	I ( DOW)	
LREF = 474.	.AI 001B.	YHRP *	.0000	IN.YO				- 1041 - 0A1		ilron = -:: HI =	0.006
	6800 IN.	ZHRP =	375.0000	IN.20					.ocu r	AL =	.000
SCALE .	0300										
		RUN NO. 6	613/0 R	N/L = 3	.26 GRADIEN	T INTERVAL =	.007 1	2.00			
HACH	ALPHAO	BETAO	PHI	QCPSF	'i CL	CD	CLH	CY	CLN	-	
.601	4.208	03060	.00000	423.0555		.05150	01500	.04200	0056	CSL.	
.600	6.333	08740	.00000	423.1109		.06130	01010	.04280	0030		
.601	6.429	09510	.00000	424.1041		.07739	00590	.04500	0010		
.599	10.544	10620	.00000	422.6122		.10859	00690	.04630	.0025		
.601	12.646	11390	. 00000	423.8602		.13380	08440	.04530	.0053		
.600	14.760	10790	.08000	423.3597		. 16670	.00120	.04610	.0050		
.600	16.973	10470	.00000	423.3591		.24890	.08430	.64910	.0035		
.601	18.387	11590	.00000	423.8523		.32840	00250	.05480	.00461		
.600	011118	11510	.00000	423.6147		.41020	00810	.05500	.0052		
	GRADIENT	00400	.00000	1300	7 .05240	.00772	.00130	.00072	.0812		

ORBITER DATA ( 57 RAS 0S ) (010303) CAZO 01 51

REFERENCE DATA

GRADIENT

-.00085

.00000

. :2460

PARAMETRIC DATA

PASE EDS

SREI LREI BREI SCAI	F = 474 F = 936	.0000 SQ.FT. .0100 IN. .6800 IN. .0300	XHRP ( YHRP ( ZHRP (		0 IN.XO 0 IN.YO 0 IN.ZO			_	LEVON = ETAO =	5.000 At .000 PH	LRON = II =	.003. CQB.
			RUN NO.	615/ 0	RN/L = 1.92	GRADIENT	INTERVAL	00/	12.00			
	MACH	ALPHAO	BETAD	PHI	Q(PSF)	CL	CD	CLH	CY	CLH	CSL	
	.299	4.061	.00330	.00800	126.24970	.23020	.04280	01470	00060	00140	00150	;
	.299	6.090	.00410	.00000	125.95810	.32830	.04990	01150	80188	60158	-,60178	F
	.259	0.121	.00330	.00000	126.10420	.425/8	.08130	00880	00150	00080	00200	ł
	.299	10.153	.00210	. 00000	126.24990	.52070	.07890	00420	00128	00020	00240	)
	.299	12.193	.00140	.00000	126.24990	.61580	.10180	.00390	00100	.00030	00250	)
	.300	14.219	.09950	.00000	126.69710	.71460	.13220	.01120	00020			
	.300	16.263	08030	.00000	126.54150	.02210	.17310	.01470	.00028			
	. 300	10.293	00030	.08080	126.54150	.93330	.22250	.01520	00040			
	. 300	20.317	00160	.08000	126.97880	1.03530	.28040	.01930	.00000			
		GRADIENT	00022	.00000	.00724	.04768	.00589	-00168	08007	.00020	00015	i
			RUN NO.	616/ 6	RN/L = 3.25	GRADIENT	INTERVAL	00/	12.00			
	MACH	ALPHAO	BETAO	PHI	O(PSF)	CL	CD	CLH	C7	CLN	CSL	
	.600	4.211	.01350	.00000	423.58030	.23620	.64970	01830	00070	00180	00140	;
	.599	6.315	.01230	.00000	422.46280	.34020	.05870	08430	00138	+.00120	00160	1
	.609	8.424	.01050	.00300	423.59350	.45120	.07350	00280	0D150	00070	00190	)
	.601	10.546	.08810	. 3000	424.08230	.56930	.09490	.00270	00140			
	.609	12.674	.00470	, eentro	423.58510	.67890	.12850	.00760	00190		· · · · · · · · · · · · · · · · · · ·	
	.599	14.748	.00310	ეტიქი		.76550	.19150	.00920	.00270			
	.601	16.658	.001äi	80-15 <u>គ</u>		.86920	.24560	.00550	.00328			
	.609	10.972	.00120			.98520	.32470	00540	.00120			
	.601	21.105	.00240	.00000	423.83530	1.11120	.41020	01190	08010			)
										0000		

.05131

.0017B

.00713

-.00011

.00024

Origivali pagh is: Of Poor Quality

DATE OF DEC 75 TABULATED SOURCE DATA - CAZO PAGE 203 CARO ORBITER DATA CI SI (BONDII) ( 50 JAN 75 ) REFERENCE DATA PARAHETRIC DATA 2690.0000 SQ.FT. XHRP 1109.0000 IN.XO ELEVON = 10.000 .008 ATLRON = LREF 474.8180 IN. YHRP .0080 IN.YO BETAO = .000 PHI .000 ZHRP BREF + 936.6800 IN. 375.0000 IN.ZO SCALE = .0300 RUN NO. 612/ 0 RN/L = 3.27 GRADIENT INTERVAL . .00/ 12.60 MACH **ALPHAO** BETAO QCPSFI CL, CD PHI CLH CY CLN CSL .00000 423.49350 .600 4.238 .01350 .34000 .06520 -.05370 -.00080 -.00170 -.00130 .599 6.342 .01400 .00000 422.74630 .44300 .07760 -.04990 -.00170 -.00130 -.00150 .600 9.451 01210. .00000 422.87430 .55180 .09650 -.04680 -.00150 -.00100 -.00150 .599 10.597 .00890 .00000 422.75080 .66670 .12390 -.64220 -.00150 -.00040 -.00170 .08580 .601 12.718 .00000 424.11830 .78760 .16310 -.03940 -.00130 .00016 -.00170 .599 14.781 .00-60 .00000 422.62720 .86610 .21730 -.03350 .00090 -.00080 -.00200 .601 16.872 .00200 .00000 424.24260 .95390 .28460 -.03770 .00250 -.00090 -.00260 .599 18,996 .00230 .00000 422.37710 1.07740 .36780 -.05010 .00140 -.00050 -.00190 423.62100 .600 21.148 .00390 .00000 1.19740 .45620 -.05470 -.00840 -.08030 -.08060 **GRADIENT** .00008 -.09890 -.00074 .05140 .00920 .00178 -.00009 .00020 -.080DF CAZO 01 SI ORBITER DATA (BGN012) ( 20 JAN 75 ) REFERENCE DATA PARAMETRIC DATA SREF 2690.0000 SQ.FT. XHAP • 1109.0000 IN.XO ELEVON \* .000 5.000 AILBON = LREF 474.8100 IN. YMRP .0000 IN.YO ALPHAO = 10.000 BETAO = -5.000 BREF = 936.6800 IN. ZMRP 375.0000 IN.ZO PHI -000 SCALE -.0300 RUN NO. 605/ 0 RN/L = 3.33 GRADIENT INTERVAL = .00/ 12.00 MACH DΖ **ALPHAO BETAO** PHI Q(PSF) CL CD CLH CY CLH CSL

.00000 423.24940

.00000 423.61630

.00000 423.49190

423.37230

424.24100

423.86810

.02573

.00000

.00000

.00000

.00000

.09110

.09090

.09100

.09120

.09120

.09130

-.00001

-.02510

-.02500

-.02500

-.02780

-.02860

-.02890

.00001

.05020

.05060

. 65110

.65300

. 05380

.05460

.60010

.01610

.01620

.01620

.01670

.01670

.01710

.00001

.00150

.00150

.00140

.00148

.00070

.00040

-.00002

.59940

.59740

.59660

.59360

.58880

.58580

-.00030

10.54190

10.54660

10.53980

10.53200

10.52230

10.52120

-.00023

1.169

5.634

10.389

25.346

40.230

47.384

GRADIENT

.600

.600

.600

.600

.601

.601

-5.25180

-5.25340

-5.25530

-5.26390

-5.26660

-5.27080

CYSO 01 51 ORBITER DATA (BGN013) ( 20 JAN 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO ELEVON = 5.000 AILRON = .098 474.8100 IN. YHRP = .0000 IN.YO ALPHAD = 14.000 BETAD . -5.000 ZHRP = 375.0000 IN.20 BREF -936.6800 IN. .000 PH! = SCALE = .0300 RUN NO. 606/ 0 RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00 MACH DZ ALPHAO DETAO PHI Q(PSF) CL . CD CLH CY CLIN CSL. -5.23890 .600 25.012 14.78300 .00000 423.38010 .80130 .17870 -.01770 .05700 .01690 -.00300 .599 29.470 14.77880 -5.23720 .00000 422.50390 .79950 .17780 -.01820 .05690 .01670 -.00290 .599 37.617 14.77480 -5.23790 .00000 422.39030 .79720 .17730 -.01910 .65710 .01670 -.00290 14.77730 -5.24060 .00000 423.00110 .600 49.099 .79360 .17560 -.01930 .05750 .01690 -.00300 .599 64.0B1 14.77120 -5.24720 .00000 422.63050 .78840 .17510 -.01820 .05890 .01730 -.00280 .680 71.262 14.77250 -5.24830 .00000 423.50760 .78490 .17460 -.01790 .05930 .01720 -.00260 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 ORBITER DATA CA20 01 S1 (BGN014) ( 20 JAN 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO ELEVON = 5.000 AILRON = .000 474.8100 IN. ANNS = .0000 IN.YO ALPHAO = 7.500 PHI -90.000 936.5800 IN. ZHRP = 375.0000 IN.ZO SCALE = .0300 RUN NO. 617/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETAO	ALPHAO	PHI	Q(PSF)	CL	CD	CLH	CY	CLN	CSL
.691	-15.006	7.57180	-90.00000	423.56140	.43820	.05530	02870	. 15950	.04660	00629
.600	-10.549	7.58110	-90.00000	422.94290	.44B6D	.05970	02310	.10270	.03380	00210
.630	-7.913	7.58580	-90.00000	423.43870	.45350	.06070	02180	.07850	.02540	00130
.691	-5.281	7.58490	-90.00000	423.93590	.46750	.05957	02920	.05250	.01790	00110
.601	-2.654	7.59120	-90.00000	423.56460	.46660	.05790	~.02520	.02670	.01010	00080
.600	011	7.60700	-90.00000	423.18690	.44190	.06560	00420	.00190	.00170	.00020
.691	2.618	7.59750	-90.68000	423,56140	.46088	.05960	02110	02190	00730	.00040
	GRADIENT	.00128	0 10	00072	00126	.00032	.00078	00922	00330	.00023

\_\_\_



DATE 01 DEC 75	TABULATED	SOURCE DA	TA - CA20						PAGE 205
		CA20	02 51		ORBITER	DATA		(90)(015)	( 20 JUN 75 )
REFERENC	E DATA						PAF	WHETRIC DATA	<b>k</b>
- 0000 0000 60	FT. XMRP =	1189.8300	IN YO			ELEV	/DN =	5.000 AIL	000 = 10R
REF = 2690.0000 SQ. REF = 474.8100 IN.	YHRP =		IN.YO			BETA		5.000 PHI	000
REF = 474.8100 IN. REF = 936.6800 IN.	ZMRP =	375.0800					-		
CALE = .0300	2.20	575,0050							
	RUN NO. 6	50 <b>7/ O</b> R	N/L = 3.38	GRADIENT	INTERVAL =	.00/ 18	2.60		
HACH ALPHA	OAT38 O.	PHI	Q(PSF)	ÇL	CD	CLM	CY	CLH	CSF
.599 4.22		.00000	422.23130	.24660	.07020	60980	. 65650	.01100	0051D
.599 6.38	8 -5.24470	.00800	422.36080	.34710	.08070	00550	.05760	.01070	00340
.600 8.48	2 -5.24320	.00000	422.73450	.45510	.09700	.00000	.05730	.01020	00970
.600 10.60	11 -5.23780	.00000	422.73450	.56370	. 1 1940	.08590	.05720	.00980	.00260
.600 12.70	5 -5.22610	.00800	423.60520	.67539	.15130	.01220	.05570	.01080	.00480
.601 14.83	3 -5.21540	.08880	423.85230	.76530	.28540	.01770	.08280	.08930	00250
.600 16.93	6 <b>-5.</b> 19690	.00000	423.36130	.65250	.26840	.02120	.06380	.01640	00350
.599 19.03	18 <b>-5.</b> 16980	.60080	422.23730	.95060	.34140	.02110	.06550	.00970	00050
.601 21.20	19 -5.14720	.60000	423.99450	1.04530	.41770	.02640	.06980	.01100	00260
GRADIEN	IT00011	.80080	.08854	.04981	.00771	.00247	.00808	00019	.00121
		CAZO	02 51		ORBITER	R DATA		(80%016)	1 20 JAN 75
REFERENC	E DATA						PAI	RAHETRIC DAT	A
GREF = 2690.0000 SQ.	FT. XHRP =	1109.0000					VON =		RON = .000
_REF = 474.8100 IN.			IN.YO			BET	XO =	.000 PH1	= .800
N1 0080.680 = 936.6800 N. C3C0 = 936.6800	. ZMRP =	375.0000	) IN.ZO						
	RUN NO.	609/ O F	M/L = 3.28	GRADIENT	INTERVAL =	.007 1	2.00		
HACH ALPHI	AO BETAO	PHI	Q(PSF)	CL	CB	CLH	CY	CLN	CSL.
.599 4.21	.01340	.00800	422.91030	. 14700	.65730	.03440	00330	00240	00090
.600 6.31	.01210	.00000	423.53260	.24930	.06350	.03940	00320	60020	00120
.600 8.41	-	.00000	423.16340	.35660	.07490	.04280	60314		00150
.600 10.5		.00000	423.65870	.46680	.09420	.04900	00270	.08040	00160
.680 12.6		.00000	423.53410	.57810	.12480	.05690	00360		00160 00210
.601 14.7		.00000	424.28360	.67170	.17630	.05110	.00000	08010	00290
.600 16.8		.00000	423.91370	.76870	.23760	.06310	.00040		00290
.600 18.9		.00000	423.90740	.65980	.31130	.05900 .05980	08010 .00200		00510
.600 21.16		.00000	424.1624 <b>0</b> .08907	.97540 .05059	.39010 .00579	.00224	.60009		00011
GRADIE	NT -,00084	.00000	1144117						

02 51

DATE OF DEC 75 TABULATED SOURCE DATA - CA20

REFERENCE DATA PARAMETRIC DATA

BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO SCALE = .0300

RUN NO. 610/ 0 RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00

CAZO

MACH	ALPHAD	BETAO	PH1	Q(PSF)	CL	CD	CLH	CY	CLN	CSL
	4.228	06650	.00000	423.26900	.24060	.07890	00800	.02950	00190	04450
.600				423.64300	.34030	.08930	00328	.03070	.00070	04550
.600	6.329	07240	.00000			.10360	00010	.03260	.00290	04610
.600	8.429	08040	.00000	423.76890	.44810	•	•		.00580	04830
.600	10.561	09230	.00000	423.89640	.56450	.12830	.00220	.03510		
.600	12.669	69850	.00000	423.77200	.67469	.16250	.01040	.03480	.00890	04820
.600	14.791	09710	.08800	423.52640	.75850	.21740	.01720	.03580	.00840	04150
.600	16.883	09256	.00000	423.64770	.84020	.28060	.02110	.03390	.00920	03760
.601	18.999	10270	.00900	424.39868	.94750	.35910	.01630	.03590	.01200	03880
.601	21.118	10768	.00000	424.39370	1.04550	.43720	.01980	.03600	.01460	03850
.001	COACIENT	- 00405	.00000	.09511	.05117	.00775	.00168	.00089	.00113	00057

CARD OR SI ORBITER DATA (BGN018) ( 20 JAN 75 )

ORBITER DATA

(9GN017) ( 20 J/N 75 )

REFERENCE DATA PARAHETRIC DATA

RREF = 474.8100 IN. YHRP = .000B IN.YO BETAO = .000 PHI = .000 BREF = 936.6800 IN. ZHRP = 375.0000 IN.ZO

SCALE = .0300

RUN NO. 60B/ 0 RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00

CSL CLN CL CD CLH Q(PSF) ALPHAO BETAD PHI HACH -.00320 -.00010 -.00158 .05850 -.00890 .24750 .01150 .00000 423.91940 .600 4.223 -.00190 -.08470 ~.00300 .00000 .00000 424.15770 .07800 .34980 6.348 .01050 .600 -.00200 .45750 .09320 -.00120 -.00330 .00040 .00000 422.91660 8.436 .01028 .599 -.00170 .00800 -.00280 .00060 .11560 .00000 424,16400 .00700 .55430 .600 10.556 -.00340 .00150 -.00190 .00000 423.41960 .67850 .15110 .01270 12.678 .08430 .600 .00060 .60010 -.00339 .75970 .20669 .01900 .00000 423.54630 .60260 .600 14.781 -.00270 .26860 .02428 ~.00040 .00090 .00000 424.78870 .00850 .84970 16.897 .601 .00090 .01760 .00220 -.00440 .00000 424.16560 .95400 .34920 -.00550 .600 19.005 .01890 .00350 .00330 -.00700 .00880 424.04430 1.05640 .42890 .600 21.118 -.01370 .08012 -.000002 .00229 .00004 .00080 -.02337 .05018 .00742 GRADIENT -.00055

TABULATED SOURCE DATA - CA20

PAGE 207

O/1.12 (			INDOCA	ED SUCRUE D.	11A - CA	<b>E</b> 0					PAC	GE 207
				CYSO		02 51	0881	TER DATA		(BGNO)	91 (30 J	JL 75
		REFERENCE D	DATA						PJ	RAHETRIC	DATA	
SREF LREF BREF SCALE	= 479 = 93	0.0080 SQ.FT. 4.8100 IN. 6.6800 IN. .0300	YMRP	= 1109.0000 = .0000 = 375.0000	IN.YO				LEVON = ETAO =	10.000 .000	AILRON = PHI =	.000
		·	RUN NO.	611/ 0	N/L =	3.26 GRADIEN	IT INTERVAL	00/	15.00			
	HACH	ALPHAO	BETAO	PHI	Q(PS	SF) CL	.CD	CLH	CY	CLN		
	.599	4.246	-01150		422.500		.08480	05440	00280			
	.599	6.328	.08920		422.502		.09760	05030	00250			
	.599	9.470	.00770		422.624		.11710	03636	00230	.00:		
	.600	10.583	.00630	.00000	423.626		.14490	04250				
	.600	12.694	.00340		422.999		.18580	03650	00250			
	.599	14.800	00080		422.502		.24400	~.02630	00250	.00		
•	.600	16.894	00140		423.252		.31210		.00090			
	.601	19.022	00230	.00000	423.995		.39850	02170	.00110			
	.601	21.151	.00850		424.247		.48570	02990	.00010			
		GRADIENT	00081	.00000	. 165		.00945	02960 .00189	00140 00005	.001		
				CARD		03 52	0RB11	TER DATA		(BGN038	3) (S) (C	H 75 )
		REFERENCE D	ATA						PA	RAHETRIC	DATA	
SREF	= 2690	.0000 SQ.FT.	XHRP	- 1109.0000	IN.XO			FI	EVON =	5.000	AILRON =	.000
LREF	= 474	.8100 IN.	YMRP	0000	IN.YO					-5.000	PHI =	.000
BREF SCALE		.6899 IN. .0309	ZMRP	* 375.0000	IN.ZO				ODER =	.000	····	.004
			RUN NO.	597/ 0 R	N/L -	1.92 GRADIEN	T INTERVAL	00/	12.60			
	HACH	ALPHAD	BETAO	PH1	QCPS	F) CL	CD	CLH	CY	CLN	CSL	
	.301	.013	-5.10740	.00000	127.126		.02980	03550	.12150	005		90
	.300	4.093	-5.09790	.00000	126.105		.04078	02080	. 12130	005		-
	.300	6.198	-5.08310	.00800	126.105		.05170	01559	. 12050	005		
	.299	8.186	-5.06230	.00000	125.814	•	.06580	01330	.11850	004		
	.300	10.206	-5.03460	.00000	126.105		.08530	08978	.11560	004		
	.299	12.246	-4.99980	.00000	125,960		.11859	00610	.11370	605		
	.299	14.299	-4.95950	.00000	125.668		.14360	.00270	.11230	005		
	.301	15.394	-4.93560	.00000	126.834		. 16480	.00469	.11040	008		
	.299	16.289	-4.91398	.00008	125.668		.18430	.00530	. 10940	005		
	.301	17.247	-4,69080	.00000	127.126		.20590	.00760	.10720	005		
		GRADIENT	.00699	.00000	106	28 .04669	.00532	.00251	00055	.000		

DATE OF DEC 75 TABULATED SOURCE DATA - CA20 CARO 03 52 ORBITER DATA (80 JAN 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SO.FT. XMRP - 1109.0000 IN.XO ELEVON -5.000 AILEON . .000 LREF = 474.8100 IN. YHRP . .0000 IN.YO BETAO --5.000 PHI .000 BREF = 936.6800 IN. ZMRP = 375.0800 IN.ZO RUDDER = .000 SCALE = .0300 RUN NO. 595/ 0 RN/L = 3.30 GRADIENT INTERVAL - .00/ 12.00 MACH **ALPHAO** BETAO PHI O(PSF) CL CD CLM CY CLN CSŁ .599 .035 -5.38780 .00000 421.64720 .09310 .03010 -.04150 .13650 ~.00820 .00820 .600 4.232 -5.37140 .00000 422.76460 .26660 .04240 ~.02750 .13260 -.00810 .01050 .601 6.365 -5.35520 .00000 423.13920 .39730 .05530 -.02250 .13100 -.00790 -01130 .600 8.467 -5.32590 .00000 422.52070 .50540 .07300 -.02840 -.00790 .12750 .01320 .600 10.623 -5.28760 .00000 421.89280 .62350 .09930 -.01940 .12220 -.00770 .01590 .600 12.737 -5.24920 .00800 422.14590 .73820 .1363D -.01470 .12120 -.00860 -01630 .599 14.875 -5.20470 .00000 421.52060 .83010 .19470 -.01390 .12530 -.01000 .00890 .599 16.957 -5.14840 .00000 421.27050 .91790 .26110 -.01830 .12010 -.00940 .00990 .599 17.897 -5.12170 .00000 421.51910 .96820 .29380 -.02180 .11930 -.00940 .00860 GRADIENT 15000. .00000 .03117 .05004 .00636 .00212 -.00129 .08005 28000. CARD 03 52 ORBITER DATA (BGN021) ( 20 JAN 75 )

REFERENCE DATA

# PARAMETRIC DATA

.00012

-.00024

.00053

.00019

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO ELEVON = 5.000 ATLEON = .500 LREF = 474.8100 IN. YMRP = .8000 IN.YO BETAO = .000 PHI .000 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO RUDDER = .000 SCALE -.0300

		RUN NO.	592/ 0	RN/L =	1.93	GRADIENT	INTERVAL	00/	12.80		
HACH	ALPHAO	BETAG	PHI	a	(PSF)	CL -	CD	ĊLH	CY	CLN	60
-300	6. 127	00720	.00000	126.8	25070	.34830	.05380	00770		00060	001E0
.299	8.218	00770	.00000	125.9	95930	.45260	.06760	05810	·	00050	00530
.300	10.249	00840	.00000	126.	54240	.55310	.02670	00550		~.00030	00260
.300	12.161	00820	.00080	126.6	5881D	.64240	.10970	.00180		.00000	00200
.301	13.240	00860	.00080	126.9	37970	.69340	. 18550	.00540		.02030	00220
.300	14.288	00848	.00000	126.3	39560	.74750	.14350	.00740		.00040	00180
.300	15.234	00890	.00000	126.8	25050	.79670	. 16190	.00930		.00060	00190
.300	16.234	00850	.00000	126.5	54220	.84800	.18220	.00930		.00090	00150
.289	17.171	00790	.00000	125.8	31300	.90250	.20480	.00990		.00110	00130
	GRADIENT	00029	.08080	) . ا	16972	.04968	.00797	.00053	-00019	20110	00130

DATE OF DEC 75

TABULATED SOURCE DATA - CARD PAGE 209

CAZO 03 SS ORBITER DATA (BGN0211 ( 20 JAN 75 )

REFERENCE DATA

				RAMETRIC DATA	-	
SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. LREF = 474.0100 IN. YMRP = .0000 IN. BREF = 938.6000 IN. ZMRP = 375.0000 IN. SCALE = .0300	. YO	1	ELEVON = BETAO = RUDOER =	5.000 AILR .000 PHI .000	•	<b>9</b> 00. <b>900</b> .
RUN NO. 593/ 0 RN/L	= 2.95 GRADIENT	INTERVAL = .00	/ 12.00			
	Q(PSF) CL	CO CLH	CY	CLN	CSI.	
	.51970 .07070	.0344002810		00120	00120	
	.38310 .37020	.0557001040		08080	00160	
	.78540 .47750	.0708001140		08050	00200	
	.51740 .58250	.0918000770		00020	00190	
	.18160 .63330	.1048000410		00030	00150	
	.16530 .68980	.1211000010		00020	00140	
	.71710 .74690	.13960 .00290		.00010	00150	
	.51020 .80300	.16110 .00380		.00020	00130	
	.71570 .85740	.19350 .00120		00230	00410	
	.31610 .90110	.2258000130		08198	00610	
	.98370 .94380	.2581000230		00100	00510	
GRADIENT00021 .00800 -	.04940. 19530.	.00594 .00198		.00009	00005	
RUN NO. 594/ 0 RN/L	= 3.30 GRADIENT 1	INTERVAL00/	12.60			
	Q(PSF) CL	CD CLH	CY	CLN	CSL	
	.64420 .07640	.0356002880		00160	00080	
	.64039 .38840	.0588001320		00080	00170	
	.89210 .58410	.0761001390		00060	00140	
	.38840 .68930	.0988008950		08020	00000	
	.51690 .66920	.1160000620		.60340	00110	
	.39160 .73140	.1382000440		.00860	00070	
	.26880 .76970	.1663000340		- 0006)	00240	
	.69060 .81470	.1956000380	.01100	- 00000	~-00330	
	.88580 .66450	.2271008540	.01060	- 00070	- 00340	
		.2620001000	.00960	00080	00240	
		.2941001510	.01010	00030	60300	
GRADIENT00023 .00000	.07526 .05115	.00661 .00185	00018	.80016	~.00001	

CVSS

.00000 421.50128

.00000 421.74970

.00000 421.25550

.00000

-.25447

ORBITER DATA

ORBITER DATA

.00560

.00260

.00189

-.00230

(BGN022) ( 20 JAN 75 )

000		1100	DATA	
10.1	- 10	N.E.	DATA	

#### PARAMETRIC DATA

REF :	474. 936.	0000 SQ.FT. 8100 IN. 6800 IN. 0300	XHRP 1 YHRP 1 ZMRP 1		9.008( .809( 5.800(	IN.	ro					861	EVON TAD DOER	-	5.000 .000 .000	AILEON PHI	-	0
Ð			RUN NO.	591/	0 1	3N/L •	•	3.38	GRADIENT	INTERVAL	-	.007	12.00	1				
	MACH	ALPHAO	BETAD	P	HI	(	Q (PS	Fì	CL	CD	CL	_H	0	Y	CLI		CSL.	
	.600	.035	02340		00000	422	.767	180	.07490	.03540	0	12860		01040	<b>~.</b> ©l	170	00100	
	.800	6.359	02490		00000	422	.520	170	.38560	.05830	(	31410		00980	GI	1090	00140	
	.599	8.489	02600		00000	421	.401	50	.50180	.07570	0	)148D		.00970	01	0060	00160	
	.599	10.617	02650		00080	421	.523	<b>560</b>	.61190	.09980	0	10910		00900	81		00099	
	.600	12.671	02540		00000	422	.645	00	.72540	. 13590	0	10360		00750			00090	
	.601	13.745	02620		00000	423	. 148	180	.76840	. 16530	(	0370		13010			00250	
	.600	14.812	02600		00000	422	.273	550	.81360	.19420	(	09200		01110			00290	
	.599	15.797	02860		60000	421	.270	150	.86060	.22380	),⊢	10 <b>570</b>		01180			00340	
	.599	16.912	02280		00000	421	.523	56 <b>9</b>	.91200	.26030		06290		.01000		-	00260	
	.601	17.858	02570		00000	422	.892	510	.96330	.29550	(	1510		.01060			00300	
		GRADIENT	08030		00089	-	. 130	126	.05068	.00571	.1	00178	-,	51000.	.0	0015	00001	

Q3 S2

#### REFERENCE DATA

14.754

15.687

16.873

GRADIENT

-.04620

-.04710

-.04400

.00060

.599

.600

.599

#### PARAHETRIC DATA

-.01680

-.01670

-.01590

.00005

.04520

.04570

.04470

-.00041

.00040

.00010

-.00040

-.00007

(BGN023) ( 20 JAN 75 )

LREF	= 474.B = 936.6	008 <b>SQ.FT.</b> 100 IN. 800 IN. 300	XHRP = YHRP = ZHRP =	1109.8000 .0000 375.0000	IN.YO				'04 = .0 = ER =	5.000 AIL .000 PHI 15.000	RON =	.000 .000
			RUN NO. 5	69/ 0 R	N/L = 3.33	GRADIENT	INTERVAL	00/ 12	.00			
	HACH .600	ALPHAO 6.417 8.452	96TAO 04880 04960	<b>PH1</b> .00000	Q(PSF) 422.24990 421.62770	CL .37920 .48770	CD .06760 .08390	CLH 00480 60460	CY .0449 .0457		CSL .003 .003	
	.599 .599	10.659 12.653	0463D 04920	.00000	421.12590 421.37910	.60130 .71070	.10780 .14170	.00310	.0432	001610 001520	.003 500.	80

.80160

.85500

.90090

.05235

.19870

.23240

.26480

.00950

03 S2

DATE O1 DEC 75

TABULATED SOURCE DATA - CA20

	CASD	05 52	ORB1	TER DATA	(804024)	( 20 JAN 75 )
REFERENCE O	PATA			F	PARAHETRIC DATA	
SREF = 2690.0000 SQ.FT. LREF = 474.0100 IN. BREF = 936.6800 IN. SCALE = .0300		IN.YO		ELEVON = BETAD = RUDDER =	5.000 AILR -5.000 PH1 .000	000 - 400 000 -
	RUN NO. 598/ 0 F	N/L = 3.35	GRADIENT INTERVAL	00/ 12.00		
HACH ALPHAO .599 .034 .601 4.328 .599 6.452 .599 8.512 .599 10.627 .600 12.720 .599 14.696 .600 16.949 .600 17.793 GRADIENT	BETAO PHI -5.36100 .00000 -5.34450 .00000 -5.32540 .00000 -5.29620 .00000 -5.26330 .00000 -5.26330 .00000 -5.18230 .00000 -5.13410 .00000 -5.11050 .00000 .00913 .00000	421.92130 423.20070 421.54760 421.67120 421.91980 422.29190 421.79470 422.17140 422.66060 04649	CL CD .07650 .06360 .27510 .07400 .38130 .08690 .48430 .10350 .59590 .12750 .70840 .16320 .79780 .28290 .92080 .31830 .04896 .00589	CLH CY02340 .127701160 .125200720 .123200230 .1200 .00280 .1160 .00760 .1152 .01190 .1200 .01470 .1175 .01330 .1180	00850 00850 00850 00850 00940 01090 01090 01090 01090 00011	CSL .00590 .00890 .00950 .01140 .01420 .01500 .00710 .00800 .00670 .00065
December o	CA20	05 52	ORB1	IER DATA		1 20 JAN 75 1
REFERENCE D	AIA			P	ARAMETRIC DATA	
SREF = 2690.0000 SQ.FT. LREF = 474.8100 IN. BREF = 936.6800 IN. SCALE = .0300		IN.YO		ELEVON - BETAD - RUDDER -	5.000 AILRO .000 PHI .000	000. = MO 000. =
	RUN NO. 581/0 R	N/L = 3.34	GRADIENT INTERVAL	00/ 12.00		
HACH ALPHAO .601 6.364 .600 8.475 .600 10.577 .599 12.691 .599 14.815 .600 16.906 .600 17.617 GRADIENT	BETAO PHI01500 .0000001370 .0000001380 .0000001510 .0000001400 .0000001080 .0000001080 .00000 .000000 .00000	421.06330 420.44320 420.69030 419.69190	CL CD .36970 .07910 .47830 .09570 .58460 .11920 .68980 .16530 .78520 .28450 .87470 .28450 .91420 .31190 .05101 .00952	CLH CY60320 .0051 .00050 .0044 .00720 .0039 .01380 .0025 .02010 .0049 .02050 .0035 .01650 .0034	0 .00028 0 .00050 0 .00150 0 .00040 0 .00040 0 .00040	CSL 00190 00160 00140 00120 00220 00130 00110

PA0E 211

						BUS BUY
	CAED	05 52	ORBITE	R DATA	(250039)	20 JAN 75 1
REFERENCE	DATA				•	ED 044 13 1
				F	ARAHETRIC DATA	
SREF = 8690,0000 SQ.F1 LREF = 474.8100 IN. BREF = 936.6800 IN. SCALE = .0300	1990 - PRHY	00 IN.XO 00 IN.YO 00 IN.ZO		ELEVON = BETAD = RUDDER =	5.000 AILEON .000 PHI 15.000	000
	RUN NO. 598/ 0	RN/L = 3.33 (	GRADIENT INTERVAL .	.00/ 12.00		
MACH ALPHAO .600 6.363 .600 8.467 .600 10.604 .600 12.707 .600 14.811 .600 15.867 .600 16.913 GRADIENT	BETAQ PHI04610 .0000004770 .0000004370 .0000004320 .0000004360 .0000004410 .0000004100 .00000	421.99550 .4 421.99390 .5 421.73170 .6 421.49310 .7 422.22950 .6 422.35540 .6	CD 36600 .09790 7360 .11370 38140 .13670 9400 .17320 7410 .23120 2060 .26340 6510 .29910 5079 .00915	CLH CY .00330 .04174 .00640 .04240 .01360 .04040 .01940 .03860 .02600 .04250 .02750 .04080 .02740 .04080 .0024300031	101510 101540 101520 01440 01600 01580 01580	CSL .00510 .00460 .00470 .00410 .00150 .00110 .00190
REFERENCE D	CA2D ATA	06 S2	ORBITER		(BGN027) ( 2)	0 JAN 75 1
SREF = 2690.0000 SO.FT. LREF = 474.8100 IN. BREF = 936.6800 IN. SCALE = .0300	XMRP = 1109.0000 YMRP = .0000 ZMRP = 375.0000	IN.YO	·	ELEYON = BETAD = RUDDER =	5.000 AILRON . .000 PHI :	
MACH ALPHAO		•	ADIENT INTERVAL =	.00/ 12.00		
MACH ALPHAO .601 6.360 .600 8.465 .600 10.581 .599 12.695 .601 14.607 .600 16.905 .599 17.799 GRADIENI	01100 .00000 01050 .00000 01090 .00000 01040 .00000 00910 .00000	Q(PSF) CL 421.32300 .35 420.33210 .46 420.32910 .57 419.70230 .68 421.19870 .76 420.07900 .84 419.82740 .68	840 .09250 420 .10830 110 .13100 270 .16670 210 .22370 720 .28980	CLH CY .00200 .00460 .00710 .00380 .01450 .00260 .02230 .00080 .03110 .00380 .03720 .00270 .03630 .00150	000100003000070001900003000060	SL 00200 00210 00150 00150 00120 00210 00140



DATE OI DEC 75

TABULATED SOURCE DATA - CA2D

PAGE 213

Muit 01 Pro 10											
			CVSD	07 S2		ORBITER	DATA		(800028)	( SO JW 7	75 1
ı	REFERENCE D	ATA						PAF	AHETRIC D	ATA	
	0800 SQ.FT.	XMRP #	1109.0000							ILRON = HI =	.000
	B100 IN.	YMRP =		IN.YO				NO =	•	at =	.000
	6800 IN.	ZHRP =	375.0000	1 IN.ZO			HUUL	DER =	.000		
SCALE = .	D300										
•		RUN NO.	583/ O R	N/L = 3.30	GRADIENT	INTERVAL =	.00/ 18	2.00			
MACH	ALPHAD	BETAO	PHI	Q(PSF)	CL	CD	CLH	CY	CLN	CSL.	
.601	6.339	01310	.00000	421.70700	.35580	.09150	.00080	01400.	.0002		
.600	8.464	01150	.00000	420.71390	.46210	.10720	.00610	.00320	.0005		
.601	10.590	01060	.00000	421.57950	.57050	. 12980	.01380	.00240	.0000		
.690	12.706	01940	.00000	421.07910	.68220	. 16570	.02190	.00020	.0020		
.600	14.793	00940	.00000	420.21160	.76090	.22130	.03040	.00300	.0006		
.601	16.912	00500	.00000	421.45210	.84510	.28950	.03540	.00120	.0007		
.599	17.798	00540	.00000	4:9.83790	.88800	.32140	.03530	.00080	.0008		
	GRADIENT	.00059	.00000	02993	.05858	.08901	.00306	00040	.0001	4 .00012	
			CASO	08 S2		ORBITER	R DATA		(BGN0S9)	( 20 JAN 1	75 J
Į	REFERENCE D	ATA				-		PAI	RAMETRIC D	ATA	
SREF = 2690.	0000 SQ.FT.	XHRP =	1109.0000	) IN.XO			ELE	VON =		ilROH =	.800
LREF = 474.1	8100 IN.	YMRP =	.0000	1N.YO				AO =		HI =	.000
BREF = 936.	6880 IN.	ZMRP =	375.0000	) IN.ZO			RUD	DER =	.000		
SCALE .	0300										
		RUN NO.	584/ O F	RN/L = 3.30	GRADIENT	INIERVAL =	.00/ ta	2.00			
HACH	ALPHAO	BETAO	PHI	Q(PSF)	CL	CD	CLH	CY	CLN	CSL	
.600	6.321	00160	.00800	421.22070	.30140	.09910	.01970	.00070	.0002		
.600	8.437	08190	.00000	421.08850	.46440	.11260	.02490	.00080	.0002		
.600	10.548	00160	.00000	421.21600	.50980	.13220	.03300	00010	.0007		
.600	12.674	00020	.00000	420.72330	.61610	. 16290	.64310	-,00260	.0018		
.601	14.794	00070	.00000	421.71960	.69800	.21390	.05530	.60100	.0001		
.599	15.422	02040	.00000	420.10150	.71210	.22870	.05900	.00040	.0004		
	GRADIENT	00000	.00000	00114	.04931	.00783	.00315	00019	.0001	.coo14	

	CA20	OB 52		ORBITER	DATA		(80H030) (	SO OWN 13 .
						PARI	WETRIC DATA	
REFERENCE DA SREF = 2890.0000 SQ.FT. LREF = 474.8100 IN. BREF = 936 S900 IN. SCALE =20	TA XMRP = 1109.0000 IN. YMRP = .0000 IN. ZMRP = 375.0000 IN.	YO			ELEVON BETAO RUDDER	* :	5.000 AILBO .000 PHI .000	903. • 1 000. •
34	RUN NO. 585/ 0 RN/L	= 3.33	GRADIENT	INTERVAL .	.00/ 12.0	ם		
MACH ALPHAO .599 6.334 .601 8.442 .601 10.560 .600 12.684 .601 14.780 .600 16.869 .599 17.295 GRADIENT	BETAO PHI01710 .00000 42001990 .00000 42101680 .00000 42102050 .00000 42002090 .00000 420	Q(PSF) 1.05510 1.91930 1.54310 0.42290 1.79180 1.42350 0.43040 .35164	CL .30910 .40900 .51310 .61740 .58910 .76270 .79330 .04827	CD .09730 .11080 .13080 .15990 .21110 .26580 .22970 .00793	.01770 .02380 .03278 .04280 .05420 .05380 .06390 .00355	.00600 .00620 .00510 .00500 .00500 .00750 .00720	CLN .00000 .00040 .00050 .00130 .00000 .00000 .00000 .000012	CSL 00248 00230 00170 00200 00260 00270 00240 .00017
	CARD	08 52		ORBITER	R DATA		(BOND31)	. 25 021 15
						PAI	RAHETRIC DATA	
REFERENCE D  SREF = 2698.0000 SQ.FT.  LREF = 474.8100 IN.  BREF = 936.6890 IN.  SCALE = .0300		i.Y0			ELEVO BETAO RUDOE	# R =	5.000 AILR .000 PHI .000	800. = HC 090. =
	RUN NO. 586/ 0 RN/L	= 3.29	GRADIENT	INTERVAL -	.00/ 12.	60		
MACH ALPHAO	BETAO PHI 02070 .00000 48	Q(PSF) 21.68170	CL .32010	02380 CD	CLH .01490 .02240	.00690		CSL 00230 00230

6.325 .02240 .601 .03900 .00080 421.55890 .41790 -.01920 .00050 -.00180 .00580 8.434 .03010 .600 .52510 .06460 .00000 420.68650 -.01910 .00150 -.00210 10.558 .00450 .600 .11810 .04150 ,62700 .00000 421.38540 -.00010 -.00300 -.02000 .00890 12.663 .05250 .600 .15270 .00000 421.55570 .70460 -.00290 -.02290 .00920 .00000 14.780 .600 .05130 .16340 .79290 .00000 421.18420 -.00230 01000.--.02310 .00850 16.870 .06310 ,600 .17050 .00000 420.43340 .81070 .00012 -.02200 .00000 17.301 -.00026 .599 .00359 .02058 -,23520 .04843

.00000

.08038

GRADIENT

DATE OF DEC 75

.599

.601

17.052

17.477

GRADIENT

-5.09130

-5.07190

.00716

.00000

.00000

.00800

421.92730

423.17230

-.11473

TABULATED SOURCE DATA - CA20

PAGE SIS CASO SS 80 ORBITER DATA (BGN032) 1 20 JUN 75 1 REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SQ.FT. XHRP -1109.0000 IN.XO ELEVON -5.000 ALLEON . .006 LREF 474.8180 IN. YHRP .0000 IN.YO BETAD = .000 PHI .008 BREF = 936.6800 IN. ZMRP 375.0000 IN.ZO RUDDER = .000 SCALE = .0300 RUN NO. 587/ 0 GRADIENT INTERVAL = RN/L = 3.31 .00/ 12.00 MACH ALPHAO **BETAO** PHI Q(PSF) CL CO. CLH CY CLH CSL .599 -16.828 .03110 .00800 420.33980 -.74310 .27770 -.06580 -.03870 -.00070 .00050 .600 -14.701 .02560 .00000 421.22130 -.63550 08355. -.05500 -.00650 -.00070 .00120 .601 -12.593 .02090 .00000 422.46230 -.54748 .18530 -.04290 -.00510 -.00070 .00090 .601 -10.497 .01800 .00000 422.21680 -.45410 .15010 -.03450 -.00370 -.00110 -.00020 .599 -8.391 .01580 .00000 420.71800 -.35640 .12100 -.02710 -.60350 -.00100 -.00118 .600 -6.286 .01380 .00000 421.46910 -.25770 .10030 -.02890 -.08440 -.00020 -.00180 .601 .017 .00460 .00000 422.33640 .02860 .09280 -.00040 -.00290 -.00120 .000000 .600 6.346 -.02180 .00000 421.21230 .30300 .09769 .02150 .085 -00000 -.00220.600 8,446 -.02408 .00000 421.21380 .40740 .11160 .02730 .00520 .00110 ~.00200 .600 10.563 -.02640 .00000 421.58250 .51140 .13120 .03570 .00580 .00120 -.00160 .601 12.669 -.02470 .00000 422.07990 .61570 .16160 .64760 .00460 01500. -.00150 .601 14.789 -.02740 .00880 422.32850 .68900 .21280 .05930 .00840 .08090 -.00250 .601 16.884 -.02510 .00000 422.07990 .76330 .26930 .07010 .00670 .00170 ~.00290 .600 17.935 -.02380 .00000 421.71470 01508. .30190 .07250 .08520 .00210 -.00210 GRADIENT. -.00307 .00000 -.08908 .04574 .00434 .00345 .00097 .0080% .00001 CA20 09 S2 ORBITER DATA (BGN033) ( 20 JAN 75 ) REFERENCE DATA PARAHETRIC DATA SREF = 2690.0000 SQ.FT. XHRP 1109.0000 IN.XO ELEVON = 5.000 AILRON . .006 LREF 474.8100 IN. .0000 IN.YO YHRP BETAQ = -5.088 PHI .508 BREF = 936.6900 IN. ZHRP 375.0800 IN.ZO SCALE \* .0330 RUN NO. 599/ 0 RN/L = 3.34 GRADIENT INTERVAL = .00/ 12.00 MACH **ALPHAO** BETAO PH1 Q(PSF) CĻ CD CLH CY CLN CST .601 .053 -5.28640 .00000 423.17540 .08569 .05920 -.02460 .06540 .01260 -.00570 .599 4.278 -5.27590 .00000 421.93160 .28370 .07020 -.01380 .06710 .01200 -.00148 .600 8.376 -5.26330 .000000 422.05390 .38830 .08320 -.00920 .05830. .01170 .00090 .600 8.549 -5.23780 .00000 422.05240 .49760 .10190 -.00360 .06800 .01090 .00330 .599 10.609 -5.20930 .00000 421.80370 .60520 .12710 .00130 .06740 .01020 .00670 .680 12.776 -5.17110 .00000 422.17740 .72170 .16560 .00660 .06530 .01020 .00793 .600 14.039 -5.13308 .00000 422.42900 .80410 .22400 .01050 .06980 .00390 .00010

.68970

.91230

.04918

.29630

.31090

.00628

.01240

.01230

.00245

.06680

-06770

.00021

.01070

.01040

-.00023

.00220

.00130

(BGN037) | 1 20 JAN 75 |

## 0 747/1 OI SI ORBITER DATA

# REFERENCE DATA

# PARAMETRIC DATA

.908		BETAC	4.000		ALPHAC	ם ו	1109.0000	=	. XHEP	ioco sa	2630.0000	=	SREF
3.098		ELV-CB	.000	=	ELV-18	ם ו	.G00D	•	YHRP	BIGD IN	474.8100	-	LREF
.000		DETAD	5.000	-	ELEVON	0 !	375.0000	=	ZHRP	1800 IN	<b>936.6</b> 800	=	BREF
.006	-	ОX	.020	-	PHI					300	.0300	#	SCALE
7.500	-	CZ	.000	-	DY								

# RUN NO. 851/ 0 RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00

HACH	ALFHAO	BETAD	FHI	Q(PSF)	Ct.	CD	CLH	CY	CLH	CSL
.539	6.201	.01190	.00000	421.10590	.15940	.04550	.02290	00150	00100	03238
.599	8.330	.01010	.00000	420.99030	.28620	.05910	.03190	00:80	02030	00290
.601	10.305	.00790	.00000	422.72200	.41830	.07930	.04190	-100150	00010	00260
.628	12.627	.00590	.00000	422.47330	.55190	.10930	.05140	00260	.00090	00210
.601	14.759	.03340	-02000	422.72350	.67060	.15820	.05570	00200	.00080	00130
.601	16.873	.00230	.00000	422.72670	.78380	.22070	.05490	.00030	.00040	00320
.603	18.983	.00230	.00000	421.60260	.90800	.29910	.04170	00039	.00050	00200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-00000

#### CA20 747/1 01 SI

## ORBITER DATA

#### (BCN038) ( 03 SEP 75 )

## REFERENCE DATA

## PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XHRP	*	1109.0000 IH.	.xo	ALPHAO	:=	4.000	ELY-IB	*	.004
LREF =	474.8100 IN.	YHRP	=	.0000 IN	.YO	ELV-08	<b>:</b> =	3.000	ELEYON		5.000
BREF =	936.6800 IN.	ZHRP	*	375.0000 IN.	.ZO	ALPHAO	-	10.000	BETAD		.560
SCALE =	.0300					PHI	=	d33.	DΧ		.000
						BY	-	.000	DZ		7.500

# RUN NO. 050/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

HACH	SETA.	al Phah	ALPHAO	DY	DZ	CL	œ	CLH	CY	CTH	CSL
.600	-9.976	5.80870	10.41260	2.12860	6.26980	.40870	.07860	.03890	01600	.00420	.00566
.600	-5.964	5.81360	10.41330	1.49020	6.26810	.41430	.07970	.03820	01190	.00248	003510
.599	-4.978	5.81900	10.41450	1.CE520	6.27000	.41530	.07950	.03880	00890	.00150	.00150
.600	-3.007	5.82670	10.41830	.64080	6.29770	.41570	.07930	.04010	00610	.00076	00021
.600	-1.992	5.82550	18.41950	.42100	6.27660	.41570	.67940	-04050	00460	.00050	00118
.600	-1.008	5.82610	10.42220	.20930	6.31260	.41520	.07940	.04090	00300	-00030	00190
.601	.057	5.82360	10.41790	00900	6.24410	.41730	.07310	.04010	00120	00018	~.00280
.600	1.014	5.82620	10.41993	22960	6.27750	.41600	.07930	.04060	00020	00020	00350
.600	2.013	5.82370	10.42220	44470	6.28800	.41490	.07960	.04140	.00140	00050	00430
.690	2.969	5.82490	10.42800	65700	6.27060	.41360	.07970	.04238	.00270	05078	60510
.600	4.984	5.81950	10.41820	-1.08590	6.26940	.41320	.07960	.04130	.00560	~.00130	00680
.601	9.990	5.81220	10.41490	-2.15500	6.26183	.40500	.07860	.04210	.01183	00380	~.01220
	GRADIENT	00008	.00034	21609	00125	00023	.00003	.00026	.00146	02026	00082

DATE 01 DEC 75

TABULATED SOURCE DATA - CAZO

CA20 747/1 01 S1

REFERENCE DATA PARAMETRIC DATA 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO ALPHAC = 4.000 ELV-IB = .200 474.8100 IN. YMRP .0000 IN.YO ELY-08 = 3.000 ELEVON = 5.000 BREF = ZHRP = 936.6000 IN. 375.0000 IN.ZO ALPHAO = 10.000 BETAD = .000 SCALE = .0300 PHI .000 DX .000 DY 10.000 02 7.500 RUN NO. 848/ 0 RN/L = 3,35 GRADIENT INTERVAL - -5.00/ 5.00 MACH BETA ALPHAH **ALPHAO** D۲ DZ CL CD CLH CY CLH CSL .599 -9.977 5.80370 10.40880 11.96970 6.35930 .41740 .07970 .03430 -.01370 .00050 +.00066 .599 -6.964 5.81260 10.41720 11.42280 6.42840 .43050 .08020 .03090 -.00850 -.00020 -.00250 .600 -5.009 5.81530 10.42300 11.04220 6.43340 .43060 .68050 .03370 -.00570 -.00050 -.00370 .599 -3.000 5.81870 10.42860 10.63430 6.45000 .43190 .08020 .03540 -.00300 -.00100 -.00500 .600 -2.007 5.81990 10.42910 10.42340 6.44280 .43350 .08000 .03550 -.00220 -.08120 -.00570 .599 -1.086 5.82850 10.43390 10.20700 6.42870 .43120 .08000 .03878 -.00150 -.00130 -.00640 .600 .025 10.43310 5.82110 9.99250 6.43900 .43159 .07940 .03910 -.00050 -.00160 -.60710 .600 1.019 5.82140 10.43540 9.76020 6.45990 .43040 .07910 .04090 .00800 -.0017B -.00780 .600 2.013 5.82190 10.43740 9.53270 6.43400 .42900 .07910 .04310 .00010 -.00180 -.00840 .599 2.991 5.02100 10.43940 9.30670 6.43310 .42870 .07900 .04460 .00850 -.00210 -.00920 .599 5.113 5.82040 10.44710 8.60200 6.44050 .42510 .07920 .04950 .00030 -.00270 -.01100 .600 9.990 5.81320 10.47550 7.59500 6.46930 .41640 .08050 .05290 -.00210 -.08440 -.01630 GRADIENT .00051 08100. -.22151 -.0013L -.00069 -.00023 .00160 .00059 -.08017 -.00069 CYSO 747/0 O1 S1 AT38 AT39 ORBITER DATA (BCHO4B) 1 20 JAH 75 1 REFERENCE DATA PARAHETRIC DATA = 2690.0000 SQ.FT. XMPP = 1109.0000 IN.XO ALPHAC = .000 BETAC =

ORBITER DATA

PAGE 217

.000

(03 SEP 75 )

(BGH03B)

				-					1040	-	
lref *	474.8180 IN.	YHRP	0	OY.NI 000				ELV-18 =	.000	ELV-08 =	3.000
BREF =	936.6800 IN.	ZHRP	= 375.0	00. IN.ZO				ELEVON =	5.000	HACH =	.608
SCALE =	.0300							BETAO =	.000	PHI =	.000
								DX =	.080	DY =	.000
		RUN NO.	619/ 0	RN/L =	3.37 GRA	DIENT INTER	YAL = -1.00	)/ 4.00			
ALPHAO	OZ	насн	DХ	DY	BETAO	PHI	ALPHAH	BETA	CL	co	CLH
8.543	1.907	.59950	3.60120	03238	.01640	.00000	1.94510	.05340	.37970	.06770	.04330
6.536	4.848	.60050	3.59700	02820	.01400	.00000	1.94340	.05390	.37990	.08330.	.03580
0.531	9.288	.59950	3.59490	02610	.01230	.00000	1.94340	.05390	. 38310	.06690	.02870
8.529	17.091	.59980	3.59790	02240	.00940	.00000	1.92880	.06010	.39120	.06870	.02150
8.525	31.807	.59930	3.60900	01480	.00500	.00000	1.91450	.05980	.40350	.07140	.01290
8.523	36.614	.60000	3.61500	01210	.00510	.00000	1.91010	.05200	.40620	.07230	.01120
	GRADIENT	.00000	.00000	.00800	.00000	.00000	.00000	.00800	00000	.00000	.00000
		_									

16.849

16.864

16.870

16.625

18.388

32.988

48.151

63.071

GRADIENT

.60060

.60080

.59930

.00000

-4.53450

-6.55190

-8.66310

.00000

.59990 -10.74270

-.00890

.08410

.01220

.02870

.00000

.00070

-.00220

-.00550

-.01480

.60880

.00200

.00000

.00000

.00000

.00000

9.74570

9.73110

9.72170

9.71610

.00000

.06220

.05210

.05490

.06290

.00000

.71290

.75690

.78490

.80370

00000.

.15840

.17600

.18680

.19270

.00000

.06130

.04550

.03530

.02730

			CARD	747/0	01 51	AT38	RT39	ORBITER DATA	4	(BONO4	11 (50 A)	N 75 3
	REFERENCE	DATA								PARAMETRIC	DATA	
SREF = 1 LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	T. XHRP YHRP ZHRP	01	00 IN.XO 07.NI 001 07.NI 001					ALPHAC = ELV-1B = ELEVON = BETAO =	4.000 .000 5.000	BETAC = ELV-OB = MACH = PHI =	.000. 000. 000.
,		RUN NO.	621/0	RN/L =	3,27	GRA	DIENT INT	ERYAL = -1.0	00, 4.00	.000	DY =	.000
ALPHAO	DZ	насн	ממ	DY	BET		PHI	ALPHAH	BETA	a.	CD	CLH
12.658	.965	.59940	06780	~.01860		680	.00000	5.93310	.06160	.54270	.07170	.05768
12.650	4.780	,59960	33520	01570	.00		.00800		.06890	.54090	.07090	.05520
12.648	9.551	.59960	59320	+.01050		330	.00000		.04540	.54940	.07270	.04930
12.651	15.655	.60020	-1.07500	08980	-	150	.00000	5.81040	.05270	.56790	.07610	.04040
12.672	30.855	.60070	-2.11910	00380	00		.00000	5.79490	.05010	.59300	.08330	.03260
12.678	45.578		-3.13100	00250	00		.00000	5.78510	-06010	.61260	.08720	.02530
12.678	60.229	.59990	-4.14410	.01270	01		.00000	5.77850	.05240	.62150	.08930	.02090
	GRADIENT	.00800	.80000	.00800	.00	009	.08000	.00000	.08080	.00000	.00000	.00000
			CAZO	747/0	01 51	BETA	9ETA	ORBITER DATA		(BGN04	5) (50 TY	N 75 1
	REFERENCE	DATA								PARAHETRIC	DATA	
SREF = 8	690.0000 SQ.F	T. XHEP	<b>= 1109.00</b>	00 IN.XO					ALPHAC =	9.000	BETAC =	.000
	474.8100 IN.	YHRP		00 IN.YO					ELV-IB =	.000	ELV-OB =	3.000
BREF =	936.6880 IN.	ZHRP		00 IN.20					ELEVON =	5.000	HACH =	.600
SCALE =	.0300								BETAO -	.000	PHI =	.000
									DX =	.000	DY -	.000
		RUN NO.	620/ 0	RN/L =	3.33	GRAI	DIENT INT	ERVAL = -1.0	ID/ 4.CO			
ALPHAO	DZ	HACH	ĐΧ	DY	BET.	AO	PHI	ALPHAR	BETA	Ci.	CÓ	CLH
16.829	3.116		-2.43120	02120	.00		.00000	9.76940	.03940	.66090	.13660	.08170
16.028	6.039		-2.83530	01980	.00		.00000	9.76310	.05540	.66860	.14020	.07650

DATE OI DEC 75

TABULATED SOURCE DATA - CARD

DATA - CA20 PAGE 219

			CYSO	747/0	01 SI AT38	EETA :	ORBITER DAT	٨	(BGHO)	L 05 ) (E <del>1</del>	AN 75 )
	REFERENC	E DATA							PARAHETRI	DATA .	
SREF =	2690.0000 SQ. 474.8100 IN.			0X.NI 000			•	ALPHAC = ELV-18 =	4.000 .000	8ETAC = ELV-08 =	-5.000 3.000
BREF =	936.6800 IN.	ZMRE	× 375.0	808 IN.20				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAO =	-5.000	PH1 =	-000
								ex =	.080	DY =	.000
•		RUN NO	). 622/ 0	RN/L #	3.34 GRA	DIENT INTE	RVAL = -L.	00/ 4.00			
ALPHAD	DZ	HACH	ρx	OY	BETAO	PHI	ALPHAH	BETA	CL	CD	~ ~
12.644	1.130	.59920	11230	1.40980	-5.21950	.60000	5.83690	-4.98500	.56770	.07460	CLH
12.623	4.337	.59930	33720	1.40240	-5.22240	.00000	5.82570	-4.97960	.56200		.03720
12.617	8.510	.59940	62560	1.42200	-5.22820	.00000	5.82070			.07300	.02990
12.618	16.134	.59970	-1.14280	1.44840	-5.23970	.00000	5.80320	-4.98110 -4.98220	.57430	.07530	.01810
12.630	31.064	.59900	-2.16520	1.47370	-5.24900	.00000			.59220	.07950	.00990
12.635	46.251	.59950	-3.21640	1.48210	-5.25230	.00000	5.79220	-4.98470	.62070	.08860	.00020
12.636	60.055	.59910	-4.17150	1.48950	-5.25550	.00000	5.78516	-4.97510	.63910	.09120	00610
16.030	GRADIENT	.00000	00000.	.00080			5.77980	-4.98250	.64820	.09370	01020
	OUYDIENI	.00000	.00000	.60000	.00000	.00000	.00000	.00000	.00000	.0000	.00000
			CA20	747/0	02 SI AT38	AT39	ORBITER DATA	<b>A</b>	(BGNO)	(4) (20 J	AN 75 )
	REFERENC	E DATA	CA20	747/0	02 SI AT38	AT39	ORBITER DATA		(BGNO)		AN 75 }
SREF = 1			_,		02 SI AT38	AT39	ORBITER DATA		PARAHETRIC	DATA	
	2690.0000 50.	FT. XHRP	- 1109.0	000 IN.XO	02 SI AT38	<b>EETA</b>	ORBITER DATA	ALPHAC =	PARAHETRIC	DATA  BETAC =	-5.000
LREF =	2690.0000 SQ. 474.8100 IN.	FT. XHRP YHRP	= 1109.0 > = .0	000 IN.XO 000 OV.AI	02 SI AT38	AT39	ORBITER DATA	ALPHAC = ELV-18 =	PARAMETRIC 4.800 .000	BETAC = ELV-08 =	-5.000 3.000
LREF = BREF =	2690.0000 SQ. 474.8100 IN. 936.6800 IN.	FT. XHRP	= 1109.0 > = .0	000 IN.XO	02 S1 AT38	AT39	ORBITER DATA	ALPHAC = ELV-IB = ELEVON =	PARAMETRIC 4.000 .000 5.000	BETAC = ELV-OB = HACH =	-5.000 3.000 .500
LREF =	2690.0000 SQ. 474.8100 IN.	FT. XHRP YHRP	= 1109.0 > = .0	000 IN.XO 000 OV.AI	02 SI AT38	AT39	ORBITER DATA	ALPHAC = ELV-18 = ELEVON = BETAO =	PARAMETRIC 4.000 .000 5.000 -5.000	BETAC = ELV-OB = HACH = PHI =	~5.000 3.900 .500
LREF = BREF =	2690.0000 SQ. 474.8100 IN. 936.6800 IN.	FT. XHRP YHRP	= 1109.0 > = .0	000 IN.XO 000 OV.AI	02 SI AT38	AT39	ORBITER DATA	ALPHAC = ELV-IB = ELEVON =	PARAMETRIC 4.000 .000 5.000	BETAC = ELV-OB = HACH =	-5.000 3.000 .500
LREF = BREF =	2690.0000 SQ. 474.8100 IN. 936.6800 IN.	FT. XHRP YHRP	= 1109.0 = .0 = 375.0	000 IN.XO 000 OV.AI		AT39 DIENT INTE		ALPHAC = ELV-IB = ELEVON = BETAO = DX =	PARAMETRIC 4.000 .000 5.000 -5.000	BETAC = ELV-OB = HACH = PHI =	~5.000 3.900 .500
LREF = BREF =	2690.0000 SQ. 474.8100 IN. 936.6800 IN.	FT. XHRP YHRP ZHRP	= 1109.0 = .0 = 375.0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	PARAMETRIC 4.000 .000 5.000 -5.000	BETAC = ELV-OB = HACH = PHI =	~5.000 3.000 .500 .000
LREF = BREF = SCALE =	2690.0000 SQ. 474.8100 IN. 936.6800 IN. .0300	FT. XHEP YHRP ZHEP RUN NO	2 = 1109.0 2 = .0 2 = 375.0 3. 623/0	000 IN.XO 000 IN.YO 000 IN.ZO	3.33 GRAE	DIENT INTE	RVAL = -1.6	ALPHAC = ELV-IB = ELEVON = BETAO = DX =	PARAMETRIC 4.000 .000 5.000 -5.000 .000	BETAC = ELV-OB = HACH = PHI = DY =	-5.000 3.003 .500 .000
LREF = BREF = SCALE =	2690.0000 SQ. 474.8100 IN. 936.6800 IN. .0300	FT. XHEP YHRF ZHRP RUN NO MACH	2 = 1109.0 3 = .0 375.0 3. 623/0	000 IN.XO 000 IN.YO 000 IN.ZO RN/L =	3.33 GRAI BETAO	DIENT INTE	RVAL = -1.E ALPHAH	ALPHAC = ELV-IB = ELEVON = BETAO = DX = DD/ 4.00	PARAMETRIC 4.000 .000 5.000 -5.000 .000	BETAC = ELY-OB = HACH = PHI = DY = CD .12680	-5.000 3.003 .500 .000 .000
LREF = BREF = SCALE =	2690.0000 SQ. 474.8100 IN. 936.6800 IN. .0300	FT. XHRP YHRP ZHRP RUN NO MACH .60000	0 = 1109.0 0 = .0 0 = 375.0 0 = 375.0 0 = 0 = 0 = 0 = 0	000 IN.XO 000 IN.YO 000 IN.ZO RN/L = DY 1.45730	3.33 GRAG BETAO -5.21700	DIENT INTE PHI .00000	RVAL = -1.6 ALPHAH 5.83830	ALPHAC = ELV-18 = ELEVON = BETAO = DX = DX = DO/ 4.00 BETA -4.98900 -4.99230	PARAMETRIC 4.800 .000 5.000 -5.000 .000 CL .55740 .54430	BETAC = ELY-08 = HACH = PHI = DY = CD .12680 .12420	-5.000 3.003 .500 .000 .000
LREF = BREF = SCALE =	2690.0000 SQ. 474.8100 IN. 936.6800 IN. .0300 DZ 1.078 4.227	FT. XHRP YHRP ZHRP RUN NO HACH .60000 .60030	0 = 1109.0 0 = .0 0 = 375.0 0 = 375.0 0 = 375.0 0 = 375.0	000 IN.X0 000 IN.Y0 000 IN.ZO RN/L = DY 1.45730 1.45710	3.33 GRAG BETAO -5.21700 -5.21810	DIENT INTE PH1 .00000 .00000	RVAL = -1.6 ALPHAH 5.83830 5.83370	ALPHAC = ELV-18 = ELEVON = BETAO = DX = D	PARAMETRIC 4.000 .000 5.000 -5.000 .000 CL .55740 .54430 .54990	BETAC = ELV-08 = HACH = PHI = DY = CD .12680 .12420 .12630	-5.000 3.903 .500 .000 .000 .000
LREF = SCALE = SCALE =	02 1.078 4.227 8.517	FT. XHRP YHRP ZHRP RUN NO MACH .60000 .60030	0 = 1109.0 0 = .0 0 = 375.0 0	000 IN.X0 000 IN.Y0 000 IN.ZO RN/L = DY 1.45730 1.45710 1.47050	3.33 GRAD BETAO -5.21700 -5.21810 -5.22580	PHI .00000 .00000 .00000	RVAL = -1.6 ALPHAH 5.83830 5.83370 5.82500	ALPHAC = ELV-18 = ELEVON = BETAO = DX = DX = DO/ 4.00 BETA -4.98900 -4.99230	PARAMETRIC 4.800 .000 5.000 -5.000 .000 CL .55740 .54430 .54990	BETAC = ELV-OB = HACH = PHI = DY = CD .12680 .12420 .13070	-5.000 3.000 .500 .000 .000 CLH .04700 .04340 .03858
LREF = BREF = SCALE = ALFHAO 12.689 12.567 12.564 12.571	02 1.078 4.227 6.693	FT. XHRP YHRP ZHRP RUN NO MACH .60000 .60030 .60080	0 = 1109.0 0 = 375.0 0 = 375.0	000 IN.X0 000 IN.Y0 000 IN.Z0 RN/L = DY 1.45730 1.45710 1.47050 1.48740	3.33 GRAG BETAO -5.21700 -5.21810 -5.22580 -5.23480	PHI .00000 .00000 .00000	RVAL = -1.6 ALPHAH 5.83630 5.83370 5.82500 5.81380	ALPHAC = ELV-18 = ELEVON = BETAO = DX = 100/ 4.00 BETA -4.98900 -4.99230 -4.99230 -4.99230 -4.997680	PARAMETRIC 4.000 .000 5.000 -5.000 .000 CL .55740 .54430 .54990	BETAC = ELV-OB = MACH = PHI = DY = CD .12680 .12630 .13070 .13800	-5.000 3.903 .500 .000 .000 CLH .04700 .04340 .03850 .03020
LREF = 8REF = SCALE =	02 1.078 4.227 8.517 16.093 31.112	FT. XHRP YHRP ZHRP RUN NO HACH .60000 .60030 .60080 .60020	0 = 1109.0 1 = .0 2 = .375.0 3 = .375.0 0 = .375.0 0 = .375.0 0 = .375.0 34250 34250 34250 116910 -2.19170	000 IN.XO 000 IN.YO 000 IN.ZO RN/L = DY 1.45730 1.45710 1.47050 1.48740 1.51140	3.33 GRAG BETAO -5.21700 -5.21810 -5.22580 -5.23480 -5.23480	PH1 .00000 .00000 .00000 .00000	ALPHAH 5.83630 5.83570 5.82500 5.81380 5.79950	ALPHAC = ELV-18 = ELEVON = BETAO = DX = D	PARAMETRIC 4.800 .000 5.000 -5.000 .000 CL .55740 .54430 .54930 .56430	BETAC = ELV-OB = MACH = PHI = DY = CO .12680 .12630 .13070 .13800 .14280	-5.000 3.900 .500 .000 .000  CLR .04700 .04340 .03020 .02440
LREF = 8REF = SCALE =	02 1.078 4.227 8.517 16.093 31.112	FT. XHRP YHRP ZHRP RUN NO MACH .60000 .60080 .60080 .60080	0 = 1109.0 0 = .0 0 = 375.0 0 = 375.0 0 OX 11690 34250 53920 -1.16010 -2.19170 -3.22910	000 IN.XO 000 IN.YO 000 IN.ZO RN/L = DY 1.45730 1.45710 1.47050 1.46740 1.51140 1.51770	3.33 GRAE BETAO -5.21700 -5.21810 -5.22580 -5.23480 -5.24470 -5.24610	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.83030 5.83370 5.82500 5.81380 5.79950 5.79840	ALPHAC = ELV-18 = ELEVON = BETAO = DX = DX = DX = DI	PARAMETRIC 4.000 .000 5.000 -5.000 .000 CL .55740 .54430 .54930 .56430 .69870	BETAC = ELV-OB = MACH = PHI = DY = CD .12680 .12630 .13070 .13800	-5.000 3.903 .500 .000 .000  CLH .04700 .04340 .03850 .03020

CA20 747/1 OI SI AT38 AT39 **CRBITER DATA** (BCXX45) ( 20 JAH 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SQ.FT. XHRP = 1109,0000 IN,X0 ALPHAC = .000 BETAC = .000 LREF = 474.8100 IN. YHRP = .0000 IN.YO 3.000 ELV-18 = .000 ELV-08 . BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO ELEVON = 5.000 HACH -.600 SCALE = .0300 BETAO = .000 .000 PHI DX .000 DY -000 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 527/ 0 ALPHAO DZ HACH DX DY BETAO ALPHAH PHI BETA CL CD CLH 8.542 .59990 .714 3.63520 -.02480 .01088 .00000 2.00160 .04680 .41400 .07120 .04240 9.528 3.692 .59920 3.63100 -.02090 .00950 .00000 2.00010 .05430 .40620 .06990 .03900 0.518 8.056 .59980 3.63410 -.01440 .00730 .00000 1.99340 .04570 .41040 .07050 .03040 3.63780 6.507 15.605 .59930 -.01330 .00490 .00000 1.98550 .05310 .41850 .07140 .02050 -.00020 B.501 30.694 .59970 3.64610 -.00339 .00000 1.97170 .04490 .42660 .07380 .01220 8.499 36.459 .60080 3.64900 -.00250 -.00040 .00000 1.96870 .04470 .42940 .07410 .00900 GRADIENT -.00824 -.00141 .00131 -.00044 .00000 -.00050 .00252 -.00262 -.00044 -.00114

> CA20 747/1 OI SI AT38 AT39 ORBITER DATA (BCN046) [ 20 JAN 75 ]

REFERENCE DATA PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XHRP	*	1109.0000	IN.XO	ALPHAC	=	4.000	BETAC	-	.500
LREF =	474.8100 IN.	AHASIA	*	.0000	IN.YO	ELV-IB	-	.000	ELV-OB	=	3.000
BREF =	936.6800 IN.	ZMRP	•	375.0000	IN.20	ELEVON	-	5.000	MACH	-	.600
SCALE =	.0380					BETAO	*	.000	PHI	=	.000
						OX	=	.000	DY	=	-000

RU	N NO.	525/	0	RN/L 1	•	3.33	G	RADIENT	Interval	•	-1.00/	4.00	

ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CB	ELH
12 332	1.832	.60970	19360	02470	.00710	.00000	5.90010	.05470	.56560	.11360	.05010
12.928	4.902	.60050	39970	02410	.00510	.00000	5.89670	.06970	.55460	.11270	.05690
12.919	9.333	.59970	70450	01890	.00490	.00000	5.89180	.04620	.57640	.11400	.04750
12.922	16.287	.60010	-1.18040	01810	.00320	.00000	5,88620	.05340	.59180	.11720	.03950
12.928	31.736	.59970	-2.24670	00760	00230	.,00000	5,86670	.04510	.61610	.12300	.03010
12.931	46.536	.60910	-3.26590	00890	00240	.00000	5.85220	.06070	.62940	.12640	.02410
12.938	61.653	.59990	-4.32120	.00250	00900	.00000	5.84840	.05300	.63610	. (2820	.02010
	GRADIENT	.00000	.00000	.08999	.00000	.00000	.00000	.00000	.00000	.00000	-00000

DATE OI DEC 75

TABULATED SOURCE DATA - CA2D

747/1 OLSI AT38 AT39 ORBITER DATA (BGN047) ( 20 JAN 75 ) REFERENCE DATA PARAMETRIC DATA ALPHAC = 8.000 BETAC .006 SREF = 2690.0000 SQ.FT. XHRP 1109.0000 IN.XO ELY-18 = ELY-03 3.000 474.8100 IN. YHTE .0000 IN.YO .000 936.6800 IN. ZMRP 375.0000 IN.ZO ELEVON = 5.000 HACH .600 BREF = .000 SCALE = .0380 BETAO \* .000 PHI DY DX .000 .000 3.25 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 526/ 0 RN/L = DX DY BETAO PHI ALPHAH BETA CL CD CLH ALPHAO DZ MACH .00380 .00000 .67480 .17830 .07680 .68020 -2.09540 -.01670 9.78520 .04000 16.841 .924 .00248 .00000 9.78090 .03220 .67080 .17910 .09070 16.843 3.722 .60080 -2.48890 -.01030 -3.10370 -.00870 .00200 .00900 9.77510 .04060 .68990 .18490 .07200 16.845 8.201 .60030 -.00210 -.00030 .00000 9,76470 .04690 .71670 .19520 .06060 16.850 15.692 .59940 -4.13510 30.700 .59980 -6.20900 .00960 -.00430 .00000 9.74940 .04650 .75770 .21230 .04590 16.865 -.00560 .00000 9.73700 .04670 .78530 .22310 .03560 .59990 -8.29310 .01440 16.875 45.718 61.155 .59980 -10.44360 .02570 -.01250 .00000 9.72920 .05480 .80140 .22930 .02880 16.891 .00000 .80500 .02620 67.887 .59990 -11.37640 .03360 -.01550 9.72220 .04720 .23090 16.691 .60070 -12.40620 .03580 -.01600 .00000 9.72200 .04730 .81170 .23240 .02160 16.691 75.245 GRADIENT .00021 -. 14064 .00229 -.00050 .00000 -.00154 -.00279 -.00143 .00029 .00139 01 St AT38 AT39 ORBITER DATA (BGN04B) ( 20 JAN 75 1 CA20 747/1 REFERENCE DATA PARAHETRIC DATA XMRP = 1109.0000 IN.XO ALPHAC = 4.000 BETAC = -5.003 2690.0000 SQ.FT. .0000 IN.YO ELY-IB \* .000 ELV-08 -3.000 474.8100 IN. YMRP = LREF ELEVON = BREF = 375.0000 IN.ZO 5.000 HACH .600 936.6800 IN. ZMRP \* SCALE = .0300 SETAO = -5.000 PHI .000 DΧ .000 ΒY .000 RUN NO. 524/ 0 RN/L = 3.34 GRADIENT INTERVAL = -1.00/ 4.00 DY ALPHAR **BETA** CL CD CLH **ALPHAO** DZ HACH DX BETAO PHI -5.22730 5.89270 -4.97770 .59350 .03650 .950 .60050 -.09170 1.42280 .00000 .10490 12,701 -5.23070 .00000 5.88430 -4.97960 .58820 .10320 .03030 4.036 .60000 -.31050 1.41650 12.684 12.674 0.306 .59970 -.60550 1.43390 -5.23560 .00000 5.88940 -4.97320 .60140 .10530 .01720 -1.11840 -5.24530 .00000 5.86640 -4.98130 .61790 .10880 .00840 12.674 15.805 .59980 1.46120 -2.16020 1.48350 -5.25590 .00000 5.85530 -4.96770 .64260 .11470 -.00190 12.679 30.896 .59900 -3.19910 1.49390 -5.25890 .00000 5.84400 -4.97339 .65630 .11830 -.00790 12.680 45.974 .59940 5.83610 -4.97300 -4.18950 -5.26240 .00000 .66350 .12040 -.01180 12.692 60.286 .60090 1.50010 GRADIENT .00000 .00000 .00000 .00080 .00000 .00000 .00000 .00000 .00000 .00000

\_\_\_

PAGE 221

CA20 747/1 01 SI

ORSITER DATA

(903049) ( 23 AUG 75 )

## REFERENCE DATA

SREF LR BR

GRADIENT

.00000

.00000

.00000

PARAMETRIC CATA

DKE!	-	2690.0000 50	2.FT,	XMRP	#	1109.8000 (	N.XO	ALPHA	C	=	.000	DETAC	-	. 260
LREF	=	474.8100 IN	۱.	YHRP	=	.8000 11	N.YO	ELV-1	В			ELV-DB		3.008
BREF	•	936.6900 IN	۱.	ZHRP		375.0000 11	N. 20	ELEVO	_				-	.609
CALE	=	.0300						BETAO				PH1	•	.000
								DX				DY		.000

SCALE =	.0300							BETAO = DX =	.000 .000	PHI =	.000
		RUN NO	. 631/ 0	RN/L =	3.24 6	RADIENT INTER	RVAL = -1.0	10/ 4.00			
ALPHAO	02	HACH	DΧ	DY	BETAO	PHI	ALPHAH	BETA	CL	ထ	ELN
6.312	-1.419	.59920	5.29790	02660	.01260	.00000	1.98210	.05430	.25940	.05730	.05924
6.292	1.466	.59920	5.30150	02450	.01180	.00000	1.99020	.08190	.27120	.05560	.04126
6.279	6.074	.59910	5.30320	01630	.00890	.00080	1.97970	.04600	.28070	.05540	.02896
6.271	13.645	.59920	5.30920	01460	.00610	.08880	1.97080	.05290	.29278	.05580	.01790
6.270	16.388	.59950	5.30430	01130	.00540	00000	1.97780	.04510	.29880	.05610	.01510
6.289	23.904	.60010	5.31460	~.00590	.00200	.00000	1.96400	.04490	.30270	.05750	.01129
	GRADIENT	.00000	.00000	.00000	.08009	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO.	628/ 0	RN/L =	3.29 GF	RADIENT INTER	IVAL = -1.0	9/ 4.00			
ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	co	CLH
10.637	1.272	.59950	2.52450	01930	.00730	.00000	2.01030	.04640	.52510	.09660	.07030
10.614	3.983	.59910	2.52480	01980	.00740	.00000	2.00740	.05410	.52970	.09410	.05540
10.601	6.941	.59970	2.52560	01370	.00630	.00000	2.00440	.03840	.53190	.09330	.04503
10.592	9.629	.59960	2.52630	01580	.00590	.00000	2.00010	.04560	.53360	.09320	.04030
10.583	15.194	.60070	2.52960	01470	.00410	.08080	1.99100	.05300	.53820	.09360	.83178
10.585	20.698	.60030	2.53850	01350	.00330	.00000	1.97990	.05250	.54170	.09440	.02570
10.582	26.325	.60090	2.53340	00670	.80030	.00000	1.97440	.04490	.54350	.09490	.02230
10.566	31.999	.59990	2.53780	00630	60840	.80880	1.97230	.65230	54540	.09500	.01860
10.550	37.416	.59910	2.53980	~.00650	.00000	.60800	1.96870	.05230	54590	.09510	.01600
10.561	42.935	.60070	2.54520	~.00450	~.00060	.00000	1.96310	.65230	54780	.09560	.01418
10.566	48.056	.59910	2.53990	00120	00220	.00800	1.96898	.04440	.54580	.09600	-81378
	GRADIENT	00015	.00011	00018	.00004	.00000	00107	.00284	.00170	08092	00550
		RUN NO.	630/ 0	RN/L =	3.25 GR	ADIENT INTER	VAL = -1.00	0/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLM
14.838	3.701	.59910	1.51970	.00250	.00170	.00000	2.03660	.03910	.77860	.19540	
14.820	6.608	.59920	1.51440	.00350	.00140	.00000	2.03470	.04660	.77330	.19090	.05918
14.798	11.328	.60080	1.51090	.00280	.00070	.00000	2.02900	.05400	.76520		.05063
14.777	18.752	.59910	1.50530	.08610	00130	.00000	2.01470	.04590	.76230	. 18740 . 18530	.0+1+0
14.759	33.074	.59940	1.50510	.01100	00330	.00000	1.99380	.64490	.75970	. 18530	.03230
14.751	48.459	.60030	1.51130	.01550	00640	.00000	1.97740	.64446	.75800	.18390	.02400
14.740	63.690	.60090	1.51010	.02740	01460	.00000	1.97150	.04430	.75510	.16390	.01248
	GRADIENT	.00000	.00080	.00000	00000	conno	00000	00000	. , , , , , ,	.10010	.01529

.00000

.00000

.00000

.00880

.08000

.00000

DATE OF DEC 75

			CVSD	747/1	01 SI	0	RBITER DATA		LECK05	0) (59 W	675 1
	REFEREN	CE DATA							PARAHETRIC	DATA	
esee - 5	.690.0000 SQ	.ft. XHRP	= 1109.00	80 IN.XO				ALPHAC =	.000	BETAC =	.000
	474.8100 IN	•• ••		00 IN.YO				ELV-IB -	.600	ELY-08 =	3.000
	936.6800 IN	•	-	00 IN.ZO				ELEVON =	5.000	HACH .	.600
·	.0300	. 21876	- 3,3.00					BETAO -	.000	PHI •	.000
SCALE =	.0380							DX -	10.000	DY =	.000
		RUN NO	. 638/ 0	RN/L =	3.25 GRA	DIENT INTER	EVAL = -1.0	0/ 4.00			
ALPHAO	DZ	HACH	OΧ	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
6.250	. 172	.60020	15.27198	03320	.01450	.08000	1.97000	.05470	.24800	.05180	.03638
6.243	3.541	.59960	15.27150	02910	.01190	.00000	1.97180	.05450	.25930	.05140	.02480
6.236	7.711	.59990	15.27720	02610	.01060	.00800	1.96950	.05360	.26970	.05140	.01650
6.230	15.213	.60070	15.29380	02330	.00880	.00800	1.96200	.05350	.28060	.05340	. 01 150
6.237	18.581	.59920	15.28410	02260	.00730	.00000	1.96290	.05310	.28590	.05370	.00890
6.238	24.078	.59920	15.28710	02100	.00520	.00000	1.96020	.05300	.29120	.05490	.00690
0.220	GRADIENT	00018	00012	.00122	00077	.00000	.00853	00006	.00335	00012	60341
		RUN NO	. 637/ 0	RN/L =	3.24 GRA		RVAL ≈ -1.0				
ALPHAO	DŽ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
10.523	2.219	.59910	12.46630	02510	.00710	.00000	1.99630	.05490	.49170	.08820	.05920
10.508	5.391	.59950	12.46980	01920	.00560	.00000	1.99520	.04680	.50150	.08660	.04430
10.498	9.749	.60000	12.47340	01890	.00600	.00000	1.99040	.04620	.50910	.09700	.03400
10.491	17.197	.59960	12.47830	01460	.00350	.00000	1.98140	.04580	.51810	.08660	.02510
10.487	32.470	.59980	12.48740	01260	.00010	.00000	1.96940	.05270	.52990	.09150	.01520
10.406	39.016	.60020	12.49080	01300	.00080	.00000	1.96590	.05250	.53300	.09220	.01390
10.484	47.260	.59980	12.49400	08650	00130	.00000	1.96280	.04470	.53560	.09280	.01110
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO	. 639/ 0	RN/L =	3.23 GR/	DIENT INTER	RVAL = -1.0	0/ 4.00			
ALPHAO	ĐZ	HACH	DX	DY	BETAO	PHI	ALPHAH	<b>BETA</b>	CL	CD	CLN
14.710	4.989	.60030	11.34780	00530	.00200	.00000	2.02580	.04720	.72090	.17400	.05378
14.694	8.249	.59990	11.34880	08530	.00170	.00000	2.02180	.04748	.73280	.17150	.05140
14.680	12.695	.60070	11.35090	08840	.00150	.00000	2.01548	.05400	.73490	.17180	.04200
14.671	20.170	.60800	11.35310	00460	08080	.00000	2.00340	.05480	.73950	.17400	.03310
14,656	35.008	.59900	11.38060	08440	00170	.00000	1.96500	.06070	.74620	.17610	.02290
14.656	50.142	.59990	11.36550	.00210	00530	.00000	1.97450	.65240	.74670	.17730	.01960
14.648	64.911	.60050	11.37090	.01860	01370	.00000	1.96780	.04470	.74870	.17670	.01510
	GRADIENT	.00000	.00880	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

.00000

.00000

GRADIENT

.00000

.00000

ORBITER DATA

(9GN051) ( 29 AUG 75 )

.00000

.00000

.00000

.00000

000		422	DATA
77 F 1	·rro		UAIA

	REFERENCE	DATA							PARAHETRIC	DATA	
LREF =	690.0080 SQ.F 479.8100 IN. 936.6800 IN.	T. XMRP YMRP ZMRP	<b>.</b> .0	000 IN.XO 0000 IN.YO 00.NI 8080				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	.000 .000 5.000 000.	BETAC • ELV-08 • HACH • PHI • DY •	.000 000.E 000. 000
		RUN NO	. 641/0	RN/L =	3.24 GRA	DIENT INTER	VAL = -1.0	0/ 4.00			
ALPHAO	OZ	MACH	ĐΧ	ĐY	BETAO	PHI	ALPHUH	BETA	CL	œ	CLM
6.190	8.425	.59990	25.24210	02560	.00940	.00000	1.96160	.65390	.26740	.04750	.00500
6.192	11.568	.59910	25.24410	02540	.00890	.00000	1.96010	. 05370	.27220	.04830	.00480
6.193	16.022	.68800	25.25100	02440	.00718	.00000	1.95580	. 05350	.27820	.04990	.00350
6.197	23.561	.59930	25.25360	02890	.08460	.60899	1.95580	.05310	.28590	.05140	.00260
0.131	CRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.60000	.00000	.00000	.00000
		RUN NO	. 640/ 0	RN/L =	3.25 GRA	DIENT INTER	VAL = -1.0	0/ 4.00			
ALPHAD	DZ	HACH	DX	DY	BETAD	PH1	ALPHAH	BETA	CL	CD-	CLH
10.405	10.347	.59940	22,40780	01410	.08510	.00000	1.88200	. 03850	.49860	04080.	.02110
10,407	13.221	.60000	22.41020	02088	.00430	.02020	1.97910	.05390	.50190	.08170	.01970
10.409	17.550	.59960	22.41380	01610	.00310	.00000	1.97280	.04580	.50740	.08320	.01750
10.410	25.437	.59920	22.42090	02800	.00140	.00000	1.95540	.05280	.51490	.08500	.01470
10.413	40.457	.59960	22.43270	00750	.00016	.00000	1.95590	.03700	.52300	.08910	.01260
10.411	46.554	.59940	22,43050	01450	00050	.00000	1.95850	.05260	.52570	.08860	.01030
10.411	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO	. 639/ 0	RN/L =	3.30 GR/	LDIENT INTER	WAL1.0	0/ 4.00			
ALPHAO	DZ	насн	рх	DY	BETAD	PHI	ALPHAH	BETA	CL.	CD	CLH
14.618	13.230	.59990	21.18160	01070	.03160	.00000	1.99990	.04660	.72380	. 15900	.03530
14.617	16.279	.60039	21.18350	00400	.00160	.00000	1,99560	.03860	.72450	. 16120	<b>.</b> 0304 <b>0</b>
14.617	20.672	.60080	21.18810	00540	.00000	.00000	1.98830	.04630	.72590	. 16350	.02990
	28.161	.60090	21.19310	00210	00190	.00000	1.98090	.04560	.73010	. 16850	.02510
14.614 14.610	43.380	.60080	21.20220	00190	00220	.00000	1.97060	.04490	.73740	.16990	.01960
	58.256	.60000	21.20560	.00290	00690	.00000	1.96520	.04470	.74280	.17060	.01630
14.607	69.930	.60000	21.21290	.01290	01260	.00000	1.95040	.04450	.74840	.17100	.01590
14.664	60.030	.00000	61.51630	00000	00000	กกกกก	annna	nnonn	.00000	.00000	.00003

.00000



DATE 01 DEC 75

# TABULATED SOURCE DATA - CA20

BAIC OF DE	C 13	Incom		D.1111, G1.	,						
			CV50	747/1	01 SI	•	ORBITER DATA		186405	≩ı :20 J/	พ 75 ม
	REFERENC	E DATA							PARAMETRIC	DATA	
LREF =	690.0800 <b>5</b> 0. 474. <b>8</b> 100 IN. 936.6800 IN.	FT, XMAP YMAP ZMRP	.0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-18 = ELEVON =	4.000 .000 5.000	BETAC = ELV-08 = HACH =	.000 3.000 000.
		2.00						BETAO =	.000	PHI =	.000
SCALE =	.0300							DX =	.000	DY =	.000
		RUN NO	. 632/ 0	RN/L =	3.24	GRADIENT INTE	RVAL = -1.0	10/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETAI		ALPHAH	BETA	CL.	CD	CLH
6.161	-3.400	.60080	3.77560	02220	.0118	60 .00000	5.84160	.05500	. 12530	.04510	.04370
6.159	517	.60060	3.57990	01780	.012	00000. 69	5.84240	.04650	.14610	.04470	.03130
6.166	3.831	.60030	3.28090	01630	.010	.00000	5.83870	.04590	. 16530	.04620	.02420
6.178	11.707	.59960	2.74170	01420	.007	00000. 08	5.83720	.05290	.19510	.04858	.01660
6.203	24.148	.59980	1.68550	00670	.002	00000. 04	5.83190	.04470	.22960	.05270	.01250
01200	GRADIENT	00807	06877	.00034	000		00085	00014	.00442	.00034	00163
	OLDIDI III										
		RUN NO	. 646/ 0	RN/L =	3.24	GRADIENT INTE	RVAL = -1.0	30/ 4.00			
ALPHAO	02	MACH	OX	DY	DETAI	o PHI	ALPHAH	BETA	CL.	CD	CLH
18.487	1.956	.59980	.61590	01230	.006	70 .00000	5.86740	.03910	.41680	.08000	.05260
10.482	6.349	.60059	.31720	01200	.006	00000. 00	5.86210	.04610	.43350	.08080	.04050
10.488	13.746	.59930	18850	00960	.0041	00000. 00	5.85350	.04550	.45250	.08320	.03150
10.493	29.253	.59900	-1.25310	00390	0013	00000. 05	5.84130	.05260	.48250	.08810	.02250
10.497	34.861	.59980	-1.63870	08460	000	50 .00000	5.83810	.05250	,49080	.08950	,01980
10.501	44.644	.60010	-2.27250	80250	000		5.83380	.84480	.50650	.09120	.01680
10.551	GRADIENT	.00000	.00000	.00000	.080		.00000	.00000	.00000	.00000	.00000
	GIADIEN	.00000	100000				**				
		RUN NO	. 647/ 0	RN/L =	3.24	GRADIENT INTE	RVAL = -1.0	90, 4.00			
ALPHAO	DZ	насн	DX	DY	BETA	D PHI	ALPHAH	BETA	CL	CD	CLH
14.823	.973	.63090	34980	08980	.001	30 .00000	5.90030	.03900	.66840	.16290	.08490
14.798	3.966	.59980	55880	00710	.001	00000.	5.89710	.03820	.67440	.15080	.06870
14.785	8.718	.60050	88540	08540	.000	60860. 68	5.69000	.04570	.68210	.16170	.05660
14.777	16.065	.60050	-1.39120	00360	000		5.87650	.05360	.69190	.16460	.04570
14.774	31.103	.60090	-2.42410	.00730	003		5.65900	.04480	.71270	.17050	.03310
14.771	45.934	.59920	-3.45290	.00920	+.005		5.84860	.05240	.72446	. 17360	.02570
14.769	60.784	.59920	-4.47470	.02360	013		5.83630	.04490	.73210	.17510	.02140
17.765	GRADIENT	0002	06982	.00063	.000		80107	00027	.00200	08870	00541
	DUVITIEN	- • 000.	- 40030#	.00000	.000		100.07	,		,	

PAGE 225

14.727

61.207

GRADIENT

.59940

.00000

5.39790

.00000

.01430

.00000

-.00580

.00000

.00000

.00000

5.01820

.00000

-.00200

.00000

.72320

.00000

.16980

.00000

.02060

.00000

ORBITER DATA

(BGN053) ( 20 JUN 75 )

	REFERÊN	CE DATA							PARAMETRIC	DATA	
	2690.0000 SQ 474.9100 IN 936.6800 IN .0300	. YHRP	6	080 IN.XO 080 IN.YO 080 IN.ZO				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 .008 5.000 .009	BETAC = ELV-OB = HACH = PHI = DY =	000.E 000.E 000. 000.
		RUN NO	. 635/ 0	RN/L =	3.27 G	RADIENT INTER	VAL = -1.0	30/ 4.00			
ALPHAO	DZ	насн	ĐΧ	DY	BETAO	PHI	ALPHAN	BETA	CL	œ	CLH
6.127	-3.556	.60030	13.78940	02950	.01620	.00000	5.83520	.04740	.11970	.04150	.02648
6.127	595	.60070	13.58720	03250	.01490	.00000	5.83590	.06250	.13630	.04190	.01730
6.134	3.736	.60070	13.29050	03270	.01370	.00000	5.83540	.06170	.15720	.04290	.01080
6. 151	11.277	.60010	12.77230	02220	.01110	.00000	5.83280	.04570	.18420	-04590	.00760
6.169	17.788	.68020	12.32180	01940	.00890	.00000	5.83040	.04560	.20320	.04830	.00710
	GRADIENT	00000	06850	08005	00028	.00000	00012	00018	.00483	.00023	00150
		RUN NO	. 694/ 0	RN/L =	3.23 G	RADIENT INTER	VAL = -1.0	00/ 4.00			
ALPHAO	DZ	HACH	ĐΧ	DY	BETAO	PH1	ALPHAH	BETA	CL	CD	CLH
10.448	-1.201	.68020	10.79470	01680	.01530	.00000	5.84020	.02060	.36980	.07600	.06050
10.431	1.842	.68020	10.59270	01490	.01460	.00000	5.84070	00010	.38920	.07530	.04330
10.432	6.403	.60090	10.28290	00960	.01300	.00000	5.83720	00860	.40978	.07660	.03150
10.436	13.966	.59990	9.77130	01040	.01100	.00000	5.82810	00150	.43340	.07970	.02410
10.455	28.935	.60050	8.74770	00770	.00610	.00000	5.82040	.00580	.46690	.08510	.01790
10.476	43.999	.60000	<b>7.7</b> 8840	00180	.00500	.00000	5.81390	00170	.48790	.08870	.01380
10.477	48.276	.60010	7.41470	00160	.08420	.00000	5.81240	00180	.49360	.08920	.01160
	GRADIENT	.00000	.00000	.00000	.00800	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO	. 693/ 0	RN/L =	3.23 G	RADIENT INTER	VAL = -1.0	10/ 4.08			
ALPHAO	DZ	MACH	DX	DY	BETAO	PH1	ALPHAH	BETA	CL	CD	CLH
14.751	1.086	.60030	9.51270	01800	.00830	.00000	5.86930	00710	.63000	. 14510	.08480
14.731	4.167	.59960	9.38440	01580	.00800	.00000	5.86720	00830	.64550	. 14440	.06460
14.724	8.638	.68010	9.00320	01780	.00750	.00000	5.85940	00090	.65980	. 14710	.05240
14.722	16.335	.60040	9.47860	01790	.00660	.00800	5.85020	.00610	.67730	. 15310	.04160
14.722	31.320	.59960	7.45320	00059	.00300	.00000	5.83490	00200	.69390	.16220	<b>0</b> 4050.
14.727	46.516	.60010	6.40990	00130	.00270	.00000	5.82450	.08580	.71320	.16780	.02550

DATE OI DEC 75

14.705

68.281

GRADIENT

#### TABULATED SOURCE DATA ~ CA20

.68040

.00000

14.72650

.00000

.03240

.00000

-.00970

.00000

.00000

.00000

5.83640

.00000

-.01740

.00000

.71610

.00000

.16630

.00000

.01900

.00000

ORBITER DATA CA20 747/1 01 S1 (BGN054) ( 20 JAN 75 ) PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = .000 2690.0000 SQ.FT. XHRP 1109.0000 IN.XO LREF 474.8100 IN. YHRP .0000 IN.YO ELV-IB = .000 ELY-OB = 3.000 375.0000 IN.ZO ELEVON = HACH .600 BREF = 936.6800 IN. ZHERP 5.000 BETAO = .000 PHI .000 SCALE \* .0390 DX 20.000 DY .000 RUN NO. 642/ 0 RN/L = 3.22 GRADIENT INTERVAL = -1.00/ 4.00 DY BETAG **ALPHAH** CD CLH **ALPHAO** DΖ MACH DX PHI DETA CL .59910 23,37960 -.02250 .01360 .00800 5.83400 .04650 .15220 .03890 -.00208 6.093 2.348 .05400 5.577 .59930 23.15610 -.02620 .01220 .00000 5.83120 .16370 .04040 -.00278 6.103 .05370 6.111 9.879 .59920 22.86218 +.02590 .01070 .00000 5.83040 .17790 .04210 -.00230 22.33520 -.01930 .00820 .00000 5.82870 .04560 .19790 .04520 .00020 6.132 17.481 .59960 -.02230 .00550 .00000 .05300 .04750 .00060 6.145 25.860 .59980 21.75890 5.82680 .21810 GRADIENT .02020 .00000 .00000 .00000 .00000 .00000 .00000 .60088 .00000 .00000 RUN NO. 677/ 8 RN/L = 3.28 GRADIENT INTERVAL = -1.00/ 4.00 HACH DY OAT3B PHI **ALPHAH** BETA CD CLM **ALPHAO** ΟZ ÐX CL 20.39070 .00180 .01220 .00000 5.05300 -.00890 .38930 .07130 .01900 .59980 10.302 4.428 .00000 -.01700 .39940 .01690 10.309 7.499 .60020 20.18050 .00540 .01130 5.84870 .07340 10.316 11.949 .59990 19.87590 .0116D .01840 .00000 5.84580 -.02500 .41370 .07550 .01460 .59990 .00820 .00760 .00000 5.83900 ~.01750 .43480 .07890 .01280 19.513 19.35470 10.336 .00950 .00490 .00000 5.83680 -.00990 .46390 .08400 .01130 10.357 34.554 .60000 18.31350 10.367 48.107 .60030 17.37700 .01200 .00310 .08080 5.83240 -.60970 .48280 .08660 .00860 GRADIENT .00800 .00000 .00000 .00880 .00000 .00000 .00080 .00000 .00000 .00000 RUN NO. 676/ 0 3.27 GRADIENT INTERVAL # -1.00/ 4.00 RN/L = DZ HACH DX DY BETAO PHI **ALPHAH** BETA CL CD CLH **ALPHAO** -.00490 .00530 .00000 5.87200 -.00B9Q .63570 .13510 .04100 14.565 7.759 .59950 18.91230 14.565 10.920 .60050 18.69760 -.00170 .00500 .08089 5.87010 -.01700 .64650 .13810 .03570 -.01090 .00430 .08080 5.86550 -.00210 .65650 .14180 .03420 15.111 .59950 18.40910 14.575 .08150 .08080 5.85810 -.01770 .67330 .03010 14.571 22.922 .60080 17.87690 .08069 .14810 .59910 16.86160 .08120 .00210 .00000 5.84840 -.01080 .69830 .15620 .02440 14.590 37.645 5.84130 52.032 .59920 15.81080 .01610 -.00130 .00000 -.01000 .70810 .16260 .02160 14,589

PAGE 227

.....

CA20 797/1 OL SI

ORBITER DATA

(BGN055) ( 20 JAN 75 )

æ	- F F	- M	F	λT/	ì.
-	_				•

# PARAMETRIC DATA

SREF = 8 LREF = BREF * SCALE =	2690.0000 SQ 474.8100 IN 936.6800 IN .0300	. YHR	P = 0.0	0008 IN.XO 0000 IN.YO 0000 IN.ZO				ALPHAC = ELV-18 = ELEVON = BETAO = OX =	8.000 .000 5.000 .600	BETAC = ELV-OB = HACH = PHI = OY =	.000 3.000 .609 .000
		RUN N	0, 633/ 0	RN/L =	3.23	RADIENT INTER	RVAL = -1.0	80/ 4.00			
ALPHAO	OZ	HACH	ОX	ĐΥ	BETAO	PHI	ALPHAN	BETA	CL.	co	CLH
5.939	987	.59920	1.93130	01440	.01090	.00000	9.71490	.04850	02769	.02360	00120
5.987	1.851	.59950	1.54240	01510	.00980	.00000	9.71670	.05590	.00450	.02770	.00926
6.027	6.647	.60070	. 6 <b>7</b> 960	01460	.00900	00000.	9.71750	.84770	.04860	.03210	.01260
6.074	14.133	.59940	15900	01320	.00770	.00000	9.71900	.05480	.08886	.03850	.01390
6.098	18.812	.60020	80660	01220	.00620	.00000	9.71600	.05470	.11420	.04170	.01400
6.122	24.109	.60050	-1.54470	00780	.00320	00000.	9.71780	.64700	.13850	.04490	.01460
	GRADIENT	.00011	-,13704	08025	00039	.00000	.00063	.00257	.01131	.03144	.09368
		RUN NO	). 645/ 0	RN/L =	3. <i>2</i> 5 G	RADIENT INTER	NAL = -1.0	0/ 4.00			
ALPHAG	ΩZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
10.299	-2.897	.59940	65080	01520	.00760	.00000	9.73420	.05720	.21500	.05380	.06240
10.303	.285	.60020	-1.07800	01080	.00800	.00000	9.73240	.04110	.25070	.05700	.04810
10.323	4.651	.60030	-1.67400	01440	.00810	.00000	9.73030	.04770	.28620	.06080	.04020
10.355	12.183	.60030	-2.70650	01300	.00630	.00000	9.72660	.04680	.33290	.05750	.03480
10.431	27.416	.60060	-4.81880	00970	.00170	.00000	9.71950	.05430	.40460	.07850	.02680
10.459	42.296	.60850	-6.68330	00430	.00010	.00000	9.71470	.05450	.44530	.08520	.02240
10.464	47.714	.59970	-7.63700	00290	00120	.00000	9.71360	.05430	.45850	.08640	.01860
	GRADIENT	.00000	.00000	.03000	.0000	.00000	.08088	.08000	.00000	.00000	.00000
		RUN NO	). <del>644</del> / 0	RN/L =	3.28 G	RADIENT INTER	RVAL = -1.0	0/ 4.00			
ALPHAO	DZ	MACH	ĐΧ	DY	BETAO	PH!	ALPHAH	BETA	CL	CD	CLH
14.701	738	.60050	-2.01430	01310	.00390	.00000	9.75940	.04100	.51610	.11890	.09400
14.691	2.335	.60030	-2.43060	01170	.00370	.00000	9.75740	.03260	.54350	.12180	.07410
14.699	6.812	.60060	-3.04150	01650	.00270	.00000	9.76110	.03970	.56990	.12750	.05410
14.714	14.542	.59980	-4.10420	01810	.00100	.00000	9.75120	.04640	.60350	,13520	.05530
14.743	29.472	.60050	-6.16200	01050	00310	.08000	9.73740	.04588	.65450	.15070	.04390
14.754	44.335	.60010	-B.22650	00369	00269		9.72820	.05410	.68420	.15070	.03430
14.762	59.151	.60020	-10.28770	.01310	00990		9.72010	.04650	.70260	.15650	.02840
	GRADIENT	00007	13549	.00046	00007	.00000	00865	00273	56800.	00094	00648

DATE 01 DEC 75

TABULATED SOURCE DATA - CA20

PAGE 229

			CASO	747/1	01 S1		ORBITER DATA	<b>.</b>	(EGNOS	SB) (20 J	AH 75 )
	referei	NCE DATA							PARAHETRI (	DATA	
SREF = . LREF = BREF = SCALE =	2690.0000 SC 474.0100 IN 936.6000 IN	N. YHRI	> = .0	000 IN.XO 800 IN.YO 000 IN.ZO				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-08 = MACH = PHI = DY =	908. 900.E 900. 900.
		RUN NO	6347 0	RN/L .	3.30 G	RADIENT INTE	RVAL = -1.0	10/ 4.60			
ALPHAO 5.917 5.958	0Z +2.155 .903	HACH .59920 .60070	DX 12.18910 11.76590	DY 03110 02850	BETAO .01740 .01560	PHI .00000 .00000	ALPHAH 9.71230 9.71600	BETA .05720 .04690	CL 02850 00120	CD .02140 .02490	CLH 02260 01190
5.994 6.038 6.070	5,537 12,684 19,121	.59940 .60000 .59950	11.12250 10.12740 9.23370	02580 02420 02490	.01440 01290 01020	00000. 00000. 00000.	9.71450 9.71670 9.71600	.04800 .04760 .05510	.03200 .07390 .10670	.02960 .03460 .03890	00730 00170 00170
6.098	25.727 GRADIENT	.59960 .00000 RUN NO	8.31400 .00000 . 691/ 0	02300 .00000	.00700 .00080	.00000	9.71520 .000co	.05500	.13550 .00800	.04270 .00000	.00420 .00000
41 0:440	07					RADIENT INTE					
ALPHAO 10.217	OZ -2.770	HACH .59940	DX O ZOLEO	DY	BETAD	PHI	ALPHAH	BETA	CL	co	CL.H
10.225	-2.770 .202		9.39150	01990	.01790	.00000	9.73900	.01070	.19260	-05080	.04100
10.25B	5.005	.60050 .60030	8.98730	01030	.01690	00000.	9.73760	.01010	.22130	.05300	-03190
10.269	12.254	.60010	8.31966	01770	.01580	.08000	9.73910	.00890	.25830	.05890	.02550
10.269	27.323	.59960	7.32340 5.23270	01180	.01310	.00000	9.73430	.00070	.30560	.05340	.02230
10.401	42.555	.59930	3.10580	01300	.00800	.00000	9.72900	.01580	.37920	.07440	.01940
10.410	48.530	.60030	2.27610	00360 00520	.00660	.00000	9.72690	.00060	.42570	.08180	.01690
10110	GRADIENT	.00000	.00000	.00000	.00600	.00000 0080 <b>0</b> .	9.72320	.00840	.44080	.08370	-01480
	OHNO TELL	.00000	.00000	.00000	.00000	.00800	.00000	.00000	.00000	.00000	.00000
		RUN NO	. 692/ 0	RN/L =	3.23 GF	ADIENT INTER	RVAL = -1.0	0/ 4.60			
ALPHAO	DZ	HACH	DX	DY	BETAG	PHI	ALPHAH	BETA	CL	co	CLH
14.599	266	.59960	7.66010	01000	.01200	.00000	9.76440	00560	.46930	. 10830	.07526
14.597	2.610	.59960	7.47010	01020	.01100	.00000	9.76298	00620	.49630	.11100	06150
14.613	7.478	.60000	6.80220	01470	.01070	.00000	9.76070	.00080	.52700	.11610	.05390
14.633	14.672	.60039	5.81800	02120	.08930	.00000	9.75250	-00770	.56980	.12480	.04510
14.673	29.795	.60800	3.73130	01120	.00310	.00000	9.74240	00020	.63290	. 14090	.03580
14.695	44.753	.59980	1.65330	01330	.00280	.00000	9.73500	.00790	.67050	.15160	.33050
14.712	59.602	.60890	41850	00080	08389	.00000	9.72990	.00820	.68950	. 15940	.02810
	GRADIENT	00800	13563	00007	00035	.00000	00052	08021	. 08939	.08094	00476

DATE OF DEC 75 TABLESTED SOURCE DATA - CAES

ORBITER DATA

(BGN057) ( 29 JAN 75 )

CA20 747/1 01 S1

	SFERENCE	E DATA			PARAMETRIC DATA								
LREF =	690.0080 SQ.I 474.8100 IN. 936.6880 IN.	FT. XHRP YMRP ZHRP	• .0	0X,NI 0000 0Y,NI 0000 0X,NI 0000				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	8.000 .000 5.000 .000 20.000	BETAC = ELV-OB = HACH = PHI = DY •	.000 3.000 .600 .000		
•		RUN NO.	. 643/ 0	RN/L =	3.22 GR	ADIENT INTER	VAL = -1.0	10/ 4.00					
ALPHA0	DZ	HACH	DХ	DY	BETAO	PHI	ALPHAH	DETA	CL	œ	CLH		
5.918	-3.193	.60060	22.40390	02500	.01850	.00800	9.70870	.04980	~.02020	.01860	0331 <b>8</b>		
5.942	094	.60060	21.97440	029BD	.01740	.00000	<b>9.7085</b> 0	.05680	.00100	.02130	02778		
5.973	4.488	.60010	21.34670	02910	.01520	.00000	9.70990	.05610	.02960	.02490	02290		
6.011	11.874	.60030	20.31020	02640	.01200	.00000	9,70990	.05540	.06800	.03050	01510		
6.079	26.802	.60020	18.22690	01920	.00740	.00000	9.71150	.04720	.13320	.04000	00400		
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000		
		RUN NO.	674/ 0	RN/L =	3.27 GR	ADIENT INTER	YAL = -1.0	90/ 4.00					
ALPHAO	ΩZ	HACH	Ox	DY	<b>BETAO</b>	PHI	ALPHAH	BETA	CL	CD	CLH		
10.226	-1.405	.59980	19.22120	.00080	.01770	.00000	9,73920	00550	.20790	.04960	.01500		
10.235	1.641	.60060	18.80350	.00330	.01660	.00000	9.73750	+.01420	.23110	.05240	.01120		
10.253	6.023	.60050	18.19850	.00170	.01390	.00000	9.73650	00710	.26130	.05600	.00940		
10.290	13.703	.60070	17.13510	.00520	.01250	.00000	9.73300	01530	.30500	.06280	.01050		
10.351	28.615	.59970	15.05830	.00700	.00660	.00008	9.73110	00770	.37520	.07300	.01090		
10.395	43.688	.60080	12.92800	.00900	.00590	.00000	9.72550	00750	.41920	.08050	.01300		
10.403	49.633	.59980	12.11970	.00900	.00450	.00000	9.72910	03730	.43190	.08260	.01250		
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00089	.00000	.00000	.00000	.00000		
	RUN NO. 675/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00												
ALPHAO	DZ	HACH	ÐΧ	DY	BETAO	PH1	ALPHAH	BETA	CL	CO	CL.H		
14.444	1.517	.60060	17.56580	.01060	.01160	.00000	9.75870	02180	.46100	.10220	.04480		
14.457	4.549	.59960	17.14950	.00580	.00970	.00000	9.75720	01490	.48450	.10570	-03860		
14.478	9.043	.59980	16.53140	00060	.60910	.00000	9.75430	00770	.51260	.11070	.03530		
14.497	16.873	.60010	15.45500	.00340	.00640	.80060	9.74680	01590	.55350	.11970	.03450		
14.563	31.919	.59990	13.36970	.00580	.00150	.00000	9.73960	01590	.61580	.13460	.03090		
14.607	46.722	.60090	11.30630	00570	.60080	.00000	9.73640	00030	.65450	.14590	.02730		
14.693	62.461	.59960	9.09770	.88828	00670	.00000	9,73250	00770	.68010	.15330	.02370		
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000		

· /------

DATE DI DEC 75

## TABULATED SOURCE DATA - CARD

PAGE 231

			CYS	0 747/1	01 SI		ORBITER DATA		(BGN05	(8) (8)	AH 75 )
	REFERENC	E DATA							PARAHETRIC	DATA	
SREF # ; LREF # BREF # SCALE #	.0300 00.000 00. 474.8100 1N. 936.6800 1N.	YHRP		0000 IN.XO 0000 IN.YO 0000 IN.ZO				ALPHAC = ELY-IB = ELEVON = BETAO =	4.000 .000 5.000 .000	BETAC = ELV-08 = HACH = PH1 =	.000 3.000 .600
								DX =	.000	DY =	10.000
		RUM NO	. 775/ 0	RN/L =	3.33	GRADIENT INTE	RVAL = -1.0	10/ 4.00			
ALPHA0 10.536 10.526 10.524 10.524 10.536 10.542	0Z -1.419 1.326 5.838 13.085 28.495 43.191 47.091 GRADIENT	MACH .60030 .60030 .60070 .53950 .60020 .60090 .60080 .00000	DX .85690 .67100 .36640 12830 -1.17810 -2.18280 -2.45200 .00000	0Y 9.98100 9.97800 9.97700 9.97800 9.98970 10.00100 10.00520 .00000	BETAC .0238 .0238 .0299 .0191 .0289 .0001 .0000	00000. 00 00000. 00 00000. 00 00000. 00 00000. 00	ALPHAH 5.83050 5.82840 5.81890 5.81440 5.80330 5.79600 5.79670 .80000	BETA .0155D .0211D .00970 .00650 .01060 .01030 .01100 .00000	CL .42730 .43750 .44720 .46220 .46620 .50180 .50730	CD .08130 .08020 .08110 .08270 .08730 .09040 .09050 .00000	CLH .05678 .04800 .04120 .03380 .02720 .02200 .01910 .09000
ALPHAO 14.865 14.849 14.833 14.834 14.831 14.830 14.828 14.828	DZ 1.432 5.001 8.890 16.716 29.965 31.354 46.543 61.677 GRADIENT	HACH .60080 .60000 .60050 .60050 .60070 .60000 .59960	DX356806069067520 -1.41420 -2.32080 -2.41560 -3.46170 -4.50100	0Y 9.94370 9.94940 9.95610 9.96810 9.96930 9.96990 10.00500 10.02160 .00000	.0180 .0180 .0211 .0208 .0155 .0057 .0043 0021	00000. 00000. 00000. 00000. 00000. 00000. 00000. 00000. 00000. 00000. 00000. 00000.	ALPHAN 5.86350 5.86350 5.85720 5.84460 5.82750 5.82630 5.81770 5.80820	BETA .02570 .02250 .00920 .01190 00030 .00740 .00830 .01030	CL .70180 .69800 .69900 .70240 .71140 .72260 .72800	CD .15000 .15990 .16020 .16290 .16820 .16840 .17160 .17370	CLH .05030 .05550 .05140 .04370 .03650 .03510 .02940 .02260

			CAE	0 747/1	01 51	(	ORBITER DAT	A	(BGN05	(S) (S)	WH 75 1
	REFEREN	ICE DATA							PARAHETRIC	DATA	
SREF -	2690.0000 50	I.FT. XHRP	- 1109.	0000 IN.XO				ALPHAC =	4. 500	000.0	
LREF =	474.8100 IN			0000 IN.YO				ELY-IB =	4.000	BETAC -	.000
BREF =	936.6800 IN		_	0000 IN.ZO				ELEVON =	.000	ELV-OB .	3.000
SCALE =	.0300		- 5.5.						5.000	MACH =	.600
									.000.	PHI =	.000
								DX =	10.000	DY =	10.000
		RUN NO	. 735/ 0	RN/L =	3.31	RADIENT INTER	PVAL = -1.0	10/ 4.60			
ALPHA9	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL.	co	CLH
10.418	-2.369	.59950	10.89070	9.99070	.02220		5.86010	.00060	.39060	.07470	.04870
10.464	1.142	.60030	10.65090	9.98750	.02500		5.86050	.00800	.40480	.07390	.03580
10.407	5.650	.60010	10.34040	9.98660	.02370		5.85670	00520	.41830	.07470	.03070
10.424	13.193	.60840	9.81878	9.98950	.01890		5.85130	00840	.43730	.07703	.02630
10.437	27.965	.60000	8.80359	9.99570	.00820		5.84270	00450	.46830	.08110	.02046
10.445	42.957	.59950	7.77080	10.00860	.00120		5.83450	01260	.48703	.08470	.01740
10.450	46.957	.60000	7.49300	10.60980	80140		5.83280	00430	.49120	-09530	.01770
	GRADIENT	.08080	.00000	.08000	.00000	.00000	.00000	.00000	.08000	.00000	.00000
							_		140000	100004	
		RUN NO.	. 738/ 0	RN/L =	3.24 G	RADIENT INTER	VAL = -1.0	107 - 4.00			
ALPHAD	OZ	HACH	ĐΧ	DY	BETAO	PHI	ALPHAN	BETA	CL	CD	CLH
14.679	128	.60020	9.59730	9.97850	.01040	.00000	5.83440	00270	.65290	. 14310	.06360
14.671	3.023	.60010	9.38060	9.97590	.01530	.00800	5.89080	00540	.66060	.14220	.05340
14.668	7.553	.60000	9.06900	9.97480	.01440	.00000	5.88650	00590	.66990	.14340	.03310
14.673	14.058	.60060	8.55540	9.98310	.01020	.00000	5.87810	01910	.67910	.14840	.04410
14.673	30.066	.80000	7.51480	10.00810	.00090	.00000	5.86360	02340	.69900	.15720	.03430
14.682	44.947	.60060	6.48600	10.02130	08590	.00000	5.85260	02250	.71130	. 16210	.02770
14.693	59 <b>.957</b>	.60859	5.43820	10.03040	01380	.00000	5.85030	00490	.72140	.16530	.02250
	GRADIENT	00003	06876	00082	.00155	.00000	00114	00117	.00244	BC002g	- 02280



DATE OI DEC 75

TABULATED SOURCE DATA - CAZD

PAGE 233 CA20 747/1 01 51 ORBITER DATA (800060) ( 20 JUN 75 ) REFERENCE DATA PARAHETRIC DATA SREF = 2690.0000 SQ.FT. XHRP 1109.0000 IN.XO = ALPHAC = 8.000 DETAC = .000 LREF 474.8100 IN. YHRP .0800 IN.YO ELY-18 = .000 ELY-08 \* 3.000 BREF = 936.6800 IN. ZMRP 375.0000 IN.ZO ELEVON = 5.000 HACH .500 SCALE \* .0300 BETAO = .080 PHI .000 .000 DY 10.000 RUN NO. 780/ D RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.00 ALPHAO DZ MACH DΧ DY BETAO PHI ALPHAR BETA CL CD CLH 10.362 -1.757 .60910 -.78530 10.03920 .00620 .00000 9.67770 .00770 .26450 .05530 .05000 10,376 .812 .60850 -1.13020 10.01360 .01490 .00000 9.67470 .01270 .29000 .05810 .04430 10.393 5.122 .59910 -1.71630 9.99440 .02190 .00000 9.67280 .01040 .31700 .06240 .04140 10.433 12.363 .60010 -2.71010 9.97970 .02480 .00000 9.67120 .00750 .35600 .05840 .03830 10.490 27.651 .59950 -4.84220 9.98430 .01500 .00000 9.66450 .00390 .41900 .07810 .03050 10.511 42.990 .59990 -6.92130 9.99200 .00710 .00000 9.65560 .00540 .45690 .08470 .02490 10.512 46.793 .59930 -7.44810 9.99030 .00520 .00000 9.65390 .02120 .46248 .08610 .02430 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .08000 .00000 .00000 .00000 RUN NO. 787/ 0 RN/L = 3.18 GRADIENT INTERVAL = -1.00/ 4.00 **ALPHAO** ĐΖ HACH DX DY BETAO PHI ALPHAH BETA CL CD CLH 14.755 .306 .60060 -2.12040 10.00190 .00500 .00000 9.69920 .02650 .54400 .12300 .07710 14.757 3.230 .59980 -2.51630 9.98410 .01160 .00000 9.69640 .02840 .56300 .12530 .06890 14.766 7.801 .60080 -3.13560 9.96970 .01720 .00000 9.69090 .02280 .58670 .12900 .06150 14.743 15.148 .60010 -4.13630 9.96310 .01620 .00000 9.69370 .01890 .60920 .13630 .05850 14.783 15.383 .60090 -4.17270 9.98030 .01690 .00000 9.69250 .01880 .61090 .13650 .05780 14.885 30.352 .60060 -6.21870 9.95960 .00920 .00000 9.66770 .00970 .66030 .15060 .04470 14.814 45.218 .60030 -8.27030 9.98820 05500. .00000 9.66150 .01090 .68550 .16020 .03750 14.814 60.205 .60010 -10.34390 10.00840 -.00810 .00000 9.65530 .02060 .70110 .16630 .02920 GRADIENT -.00027 -.13541 -.00509 .00226 .00000 -.00096

.00065

.00650

.00079

CA20 747/1 01 SI

# ORBITER DATA

.00000

.00000

.00000

.00000

.02920

.00000

(9GN061) | 1 20 JAN 75 | 1

3	•	_	-	-		Œ	_	•	•	
۲	Ľ	•	М	E.	w	_	41	4	2.4	

GRADIENT

.00000

.00000

.00000

.00000

	REFER	ENCE DATA							PARAMETRIC	DATA	
EREF =   LREF = BREF = SCALE =	2590.0000 ( 474.8100 ( 936.6800 (	IN. YHRP	• ,	00.00 1N.XO 00.01 0000. 00.NI 0000.				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	8.008 .000 5.000 .000	BETAC = ELV-OB = MACH = PHI = OY =	.000 3.000 .600 .000
		RUN NO.	736/ 0	RN/L =	3.27 GR	ADIENT INTER	IVAL = -1.0	10/ 4.00			
ALPHA0 10.233 10.250 10.273 10.365 10.370 10.405 10.417	9Z -3.822 443 3.946 11.425 26.395 41.249 47.343 GRADIENT	NACH .59980 .59940 .60060 .59960 .59930 .60010 .60010	0x 9.54260 9.08310 8.47950 7.44960 5.38960 3.30390 2.45280 13750	8Y 10.05490 10.02460 10.00670 9.99240 9.99710 10.00370 10.0048000408	BETAO .00500 .01480 .02180 .02410 .01400 .00630 .00340	PH1 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 9.72970 9.72940 9.72760 9.72290 9.72260 9.71690 9.71510 ~.00018	9ETA 00620 00130 00370 00659 01060 00950 00120 00055	CL .21050 .24640 .27580 .31980 .38620 .42810 .43980	CB .04790 .05180 .05570 .06130 .07120 .07810 .08050 .00089	CLH .03478 .02730 .02540 .02400 .02300 .02120 .02080 00043
		RUN NO.	737/ 0	RN/L =	3.24 GRA	DIENT INTER	VAL = -1.0	0/ 4.00			
ALPHA0 14.551	DZ -1.912	MACH .59580	0x 6.11220	DY	BETAO	PHI	ALPHAN	BETA	CL	CD	CLH
14.559	1.350	.50300	7.66560	10.04110 10.02940	.00360 .01050	.00000 .00000	9.75230	01040	49610	. 10750	.06260
14.571	5.795	.59930	7.05740	10.08480	.01360	.00000	9.75390	~.00860	-51800	.11130	-05600
14.595	13.276	-59950	6.02790	9.99330	.01360	.00000	9.74870 9.74290	.00140	.54520	.11520	.05010
14.628	27.980	.60090	3.99750	9.99600	.00470	.00000	9.73330	01120	-57910	. 12280	-04710
14. <del>65</del> 2	43.114	.60090	1.89710	9.99740	00080	.00000	9.72630	02110	.63070	0الحيدا .	.04180
14.658	57.869	.60010	16040	10.01600	01010	.00000		01210	66960	. 14690	.03420
	GRADIENT	. ດດຄອດ	00000	00000	.01010	.00000	9.72200	00990	.69060	. 15430	.02920

DATE 01 DEC 75

TABULATED SOURCE DATA - CARD

			CA	20 747/1	01 S1		ORBITER DAT	ľ <b>A</b>	(BGN06	F 05 1 (2)	AN 75 1
	REFER	ENCE DATA							PARAMETRIC	DATA	
SREF =	2690.0000	SQ.FT. XHE	&P = 1109.	OX.N! 0800.				ALPHAC =	4.000	BETAC =	-5.000
LREF =	474.8100	IN. YH	<i>چ</i> حج	OY.N1 0000.				ELY-18 =	.000	ELV-08 =	3.000
BREF =	936.6800	IN. ZHA	8P = 375.	.000B 1N.ZO				ELEVON =	5,000	HACH =	.600
SCALE =	.0300							BETAO -	.080	PHI =	.000
							•	ex =	.000	DY =	.000
		RUN A	IQ. 649/ O	RN/L =	3.23	GRADIENT INTE	RVAL = -1.	00/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETA	0 PHI	ALPHAH	BETA	CL	CD	CLH
10.509	-1.137	.59940	.80340	1.02360	.033	00800. 01	5.86240	-4.98170	.39060	.08190	.07490
10.494	1.605	.59910	.60690	1.04100	.026	50 .00000	5.85990	-4.97100	.41500	.08130	.05820
10.489	6.479	.60010	.29110	1.07360	.015	00000. 00	5.85550	-4.97800	.43310	.08220	.04070
10.492	14.163	.59930	23620	1.09950	.005	00000.00	5.05000	-4.97850	.45310	.08400	.03210
10.505	28.706	.59930	-1.23230	1.11960	003	.00000	5.83810	-4.97280	.48100	.08870	.02420
10.508	37.359	.59920	-1.82790	1.12640	004		5.83380	-4.98120	.49400	.09040	.01940
10.511	44.033		-2.28840	1.12900	003		5.83110	-4.98850	.50100	.09150	.01730
	GRADIENT	.00000	.00000	.00000	.080	00 .00000	.00000	.00000	.00000	.00000	.00008
		RUN 1	iO. 648/ 0	RN/L =	3.23	GRADIENT INTE	RVAL = -1.	00/ 4.00			
ALPHAO	DZ	MACH	DX	DY	BETA	O PHI	ALPHAU	BETA	CL	CO	CLH
14.815	1.089	.59980	36760	.95890	.021	50 .00000	5.68900	-4.94920	.66720	. 16460	.08220
14.791	4.326	.60030	59540	.96740	.016	00000	5.88950	-4.94670	.67970	.16290	.06018
14.781	8.540	.60010	88820	.99440	.010	.00000	5.88650	-4.96920	.68410	.16280	.05350
14.774	15.930	.60000	-1.39450	1.01620	.003	00000, 05	5.87180	-4.97950	.69280	.16530	.04500
14.772	31.119	.59978	-2.44090	1.04050	005	00000.00	5.85680	-4.97430	.71220	.17070	.03370
14.770	46.180	.59930	-3.47810	1.04640	087	.00000	5.84340	-4.97320	.72488	.17390	.02620
14.771	61.235	.60080	-4.51880	1.06280	016	00000.	5.83610	-4.98050	.73080	.17540	.02170
	GRADIENT	.00000	.00000	.00000	.000	<b>0</b> 0000 <b>0</b>	.00000	.00000	.00000	.00804	.60000

GRADIENT

.00000

.00000

.00000

SCALE =	.0300	2.10	3,3,0					BETAO =	.000	PHI •	.000
		RUN NO.	. 687/ 0	RN/L =	3.29 GRA	DIENT INTER	RYAL = -1.0	90/ 4.00			
ALPHAO	DZ	HACH	ΩX	DY	BETAO	₽HI	ALPHAH	BETA	CL	CD	CLH
10.465	-1.205	.59940	10.77730	1.90140	.03370	.00000	5.86870	-4:.98130	.35640	.07570	.06170
10.354	1.344	.60020	10.60790	1.91000	.02940	.00000	5.86910	-4.97040	.38200	.07590	-D4100
10.395	8.229	.60050	10.27480	1.93450	.02840	.00000	5.85640	-4.96980	.46630	.07660	.02760
10.414	13.845	.60080	9.74720	1.95870	.01170	.00000	5.86110	-4.9780n	.42910	.07950	.02270
10.432	28.880	.60030	9.71070	1.97770	.00290	.00000	5.85270	-4.97890	.46360	.08440	.01650
10.441	43.758	.59900	7.69350	1.98520	.00130	.00000	5.84450	-4.98020	.48450	.08790	.01320
10.445	48.167	.60080	7.38000	1.98680	.00000	.00008	5.64530	-4.97980	.48930	.08870	.01240
	GRADIENT	.08000	.00000	.00000	.00000	.00888	.00000	.00000	-80000	.00000	.00000
		. RUN NO.	6887 0	RN/L =	3.26 GRAI	DIENT INTER	EVAL = -1.0	00/ 4.80			
ALPHAO	DŽ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	£D	CLH
14.748	1.142	-60040	9.54500	1.81420	.02050	.00000	5.75210	-4.94670	.63200	. 14930	.08580
14.723	4.240	.59970	9.34440	1.81850	.01890	.00000	5.75270	-4.95250	.65670	.14920	.05540
14.719	8.654	.59970	9.05210	1.84460	.01430	.00000	5.74690	-4.97680	.66460	.15080	.04840
14.719	16.242	.59940	8.54770	1.06060	.00800	.00000	5.73890	-4.97240	.67750	.15510	.04050
14.721	31.044	.59950	7.56580	1.88230	.00080	.00000	5.72550	-4.98170	.70230	.16230	.02990
14.728	46.344	.59940	6.54430	1.88790	00130	.00000	5.71610	-4.98100	.71630	.16740	.02510
14.727	60.991	.59900	5.56340	1.90280	00830	.00000	5.70940	-4.98780	.72530	.16970	.02040

.08000

.00000

.00000

.00000

.00000

.00000

DATE OI DEC 75

TABULATED SOURCE DATA - CARD

			CYS	747/1	01 S1	(	ORBITER DAT	A	(BGN06	741 ( 20 J	AN 75 )
	REFEREN	CE DATA							PARAHETRIC	DATA	
	2690.0000 SQ			0X.NI 0000				ALPHAC =	4.080	BETAC =	-5.000
LREF =	474.8100 IN			000 IN.YO				ELV-IB =	.000	ELY-08 =	3.000
BREF =	936.6800 IN	. ZHRI	P = 375.8	1080 IN.ZO				ELEVON =	5.000	HACH =	-608
SCALE =	.0300							BETAO =	.000	PHI =	.000
								DX =	20.000	DY =	-000
		RUN NO	o. 670/ B	DM41 -	7 70 6						
		not h	J. 6707 G	RN/L =	3.30 G	RADIENT INTER	YAL = -1.	38/ 4.00			
ALPHA0	DZ	HACH	OX	DY	BETAO	PHI	ALPHAR	BETA	CŁ	co	CLH
10.318	3.700	.60010	20.41600	2.83640	.02060	.00000	5.84738	-4.99440	.38470	.07330	.01850
10.322	6.553	.59970	20.22210	2.83310	.01590	.00000	5.84340	-4.98620	.39890	.07430	.01320
10.343	11.191	.60090	19.89920	2.84400	.01170	.00000	5.84120	-4.99390	.41110	.07660	.01350
10.354	18.631	.59990	19.38810	2.84640	.00640	.00000	5.83970	-4.98650	.43040	.07960	.01400
10.379	33.916	.60890	18.33430	2.85720	.00180	.00000	5.83370	-4.98860	.45990	.08450	.01350
10.388	48.230	.60020	17.34840	2.66390	00110	.00000	5.82690	-4.98840	.48010	.08730	.01060
	GRADIENT	.00800	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
									755700		.00000
		RUN NO	671/ 0	RN/L #	3.30 GA	RADIENT INTER	VAL = -1.0	10/ 4.00			
ALPHAO	DZ	MACH	DΧ	ÐY	BETAO	PHI	ALPHAH	BETA	CL.	co	<b>~</b>
14.501	7.815	.60910	18.90670	2.72590	.01240	.00000	5.86040	-4.98530	.63840	. 13650	CLH ,03660
14.504	11.048	.60020	18.68440	2.72740	.00960	,00000	5.85980	-4.99660	.64550	.13880	.03520
14.508	15.518	.60840	16.37828	2.73100	.00590	.00000	5.85870	-4.98820	.65780	.14180	.03170
14.516	22.987	.60090	17.86830	2.73860	.00130	.00000	5.85070	-4.98950	.67200	.14770	.02930
14.524	38.017	.59990	16.83330	2.74690	.00110	.00000	5.84180	-4.98930	.69300	.15540	.02560
14.529	52.676	.60080	15.82050	2.76460	08420	.00000	5.83510	-4.98920	.70280	.16140	.02270
14.527	68.431	.60030	14.73000	2.77580	01180	.00800	5.83000	-4.98810	.71270	.16390	.01920
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
									. 00000	.00000	.00000

CA20 747/1 01 51

ORBITER DATA

(BGN065) ( 20 JAN 75 )

OCI	 DCL	ICE.	ma	T.A

## PARAMETRIC DATA

									**********	- Date	
	2690.0000 <b>50.</b> 1			000 IN.XO				ALPHAC =	8.600	BETAC =	-5.000
LREF =	474.8100 IN.	YHRE	•	OY.NI BBBB				ELV-18 =	.000	ELV-08 =	3.080
BREF =	936.6800 IN.	ZMPS	375.0	3080 IN.ZO				ELEVON =	5.000	MACH =	.600
SCALE =	.0300							BETAO =	.000	PHI =	.000
								DX -	.080	BY =	.000
		RUN NO	. 650/ 0	RN/L =	3.23 GRA	DIENT INTER	RVAL1.1	00/ 4.00			
ALPHAD	DZ	MACH	DX	DY	DETAG	PHI	ALPHAH	BETA	α.	CD	CLH
10.285	-2.860	.59910	68300	.97220	.09130	.00000	9.73440	-4.98470	.19420	.05090	.06240
10.303	.275	.59920	-1.10310	1.02140	.06460	.00000	9.73380	-4.98020	.24340	.05620	.04650
10.329	4.787	.59920	-1.71740	1.07390	.03930	.00000	9.73230	-4.98730	28380	105170	.03990
10.368	12.206	.59950	-2.73470	1.11610	.01850	.00000	9.72900	-4.97920	.33270	.05840	.03450
10.440	27.766	.59990	-4.89330	1.15250	00010	.00080	9.72430	-4.97340	.40460	.07940	.02910
10.469	42.765	.60800	-6.96630	1.16390	00170	.00800	9.71690	-4.98020	-44570	.08600	.02250
10.475	47.740	.59940	-7.66500	1.16600	00340	.00000	9.71310	-4.97990	.45580	.08740	.02070
	GRADIENT	.00900	.00000	.00000	.00000	.08880	.00800	.00000	.00080	.00000	.00000
		RUN NO	. 631/ 0	RN/L =	3.22 GRA	DIENT INTER	WAL = -1.0	30/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETAG	PHI	ALPHAR	BETA:	CL	CD CD	CLH
14.666	982	.60030	-2.00400	.90170	.06040	.00000	9.76620	-4.94790	.49950	.11730	.09880
14.658	2.094	.60050	-2.41440	.94080	.04440	.00000	9.76530	-4.94600	.53750	.12170	.07280
14.666	6.577	.60090	-3.02330	.98050	.02720	.00000	9.75850	-4.94030	.56670	.12690	.06260
14.686	14.365	.60070	-4.09409	1.02200	.D1090	.00000	9.75280	-4.9B110	.60080	.13670	.05550
14.713	29.395	.60010	-6.16750	1.06310	00360	.00000	9.73960	-4.98140	.65360	.15090	.04350
14.725	44.077	.59950	-8.20940	1.07799	00530	.00000	9.73030	-4.98880	.68130	.16060	-03540
	GRADIENT	.00007	13343	.01271	00520	.00880	00029	.00062	.01239	E4100.	- RADOR

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

CAZO 747/1 01 SI ORBITER DATA (BGN066) 1 20 JUN 75 1 PARAMETRIC DATA REFERENCE DATA 1109.0000 IN.XO ALPHAC = BETAC = -5.000 2690.0000 SQ.FT. XIXIP 8.000 YHRP .0000 IN.YO ELY-IB . .000 ELY-08 = 3.000 LREF 474.8100 IN. ZHRP 375.0000 IN.ZO ELEVON \* HACH .600 BREF = 936.6900 IN. 5.000 SCALE = .0300 BETAC = .000 PH! .000 10.000 OY .000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 690/ 0 RN/L = 3.24 02 ĐΧ DY DETAO PHI ALPHAH BETA CL CD CLH ALPHAO . HACH .07970 -2.705 .59930 9.36200 1.08080 .00000 9.73680 -4.99820 .18330 .04960 .03860 10,206 .60969 8.95250 1.90700 .05110 .00000 9.73590 -4.97970 .22470 .05270 .02480 10.219 .329 4.772 8.34240 1.94530 .04190 .00000 9.73540 -4.98670 .25980 .05700 .02170 10.243 .60000 10.200 12.369 .60000 7.29150 1.98070 .02420 .00000 9.73300 -4.98620 .30880 .06340 .01950 5.21050 2.01480 .00890 .00000 9.73050 -4.99540 .37910 .07450 .01940 10.356 27.344 .59990 2.02090 .60530 .00000 9.72630 -4.99720 10.397 42,540 .59940 3.09140 .42600 .08160 .01620 48.511 .60000 2.25840 2.02540 .00300 .00000 9.72420 -4.99700 .43910 .08380 .01530 10.407 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT 689/ 0 RN/L = 3.25 GRADIENT INTERVAL - -1.00/ 4.00 RUN NO. ALPHAO DZ MACH DX OY BETAO PHI ALPHAH BETA CL. CD CLH 14.592 -.448 .59960 7.96760 1.78020 .05410 .00000 9.76400 -4.95400 .46840 .10850 .07110 14.594 2.909 .60010 7.41550 1.81260 .04180 .00000 9.7629D -4.95290 .50610 .11250 .05280 .53220 .03010 .00800 9.75780 -4.95500 14.610 7.309 .69030 6.91330 1.64130 .11720 .04870 5.81930 1.88240 .01770 .00000 9.75460 -4.99580 .58970 .04570 14.636 14.529 .60000 . 12540 14.677 29.855 .59980 3.70390 1.90670 .00380 .00000 9.74490 -4.98070 .63450 .14160 .03710 9.73540 1.92310 .00000 -5.00370 .67070 14.699 44.920 .59970 1.51150 .00160 .15220 .03110 14.711 59.693 .60060 -.45210 1.93410 -.00650 .00000 9.73180 -4.98710 .69300 . 15920 .02590 .00015 -.13472 .00965 -.00367 .00000 -.00033 .00033 .01123 .00119 -.00545 GRADIENT

GRADIENT

.00000

.00000

.00000

.00000

.00000

.00020

.00000

.00000

.00000

.00000

			CY50	747/1	01 SI	(	DRBITER DAT	A	(BOHOS	17) ( 29 J	JA 75 1
	REFEREN	CE DATA							PARAHETRIC	DATA	
	2690.0000 SQ.			000 IN.XO				ALPHAC =	8.000	BETAC =	-5.000
LREF =	474.8100 IN.			000 IN.YO				ETA-IB =	.000	ELY-08 =	3.003
BREF =	936.6800 IN.	. ZMRP	= 375.0	DOD IN.ZO				ELEVON +	5.000	MACH =	.600
SCALE =	.0300							BETAO =	.000	PHI =	.030
								DX =	20.000	DY -	.000
		RUN NO	. 673/ 0	RN/L =	3.29 6	RADIENT INTER	RVAL = -1.0	99.4.00			
ALPHAO	DZ	HACH	DX	DY	DETAG	PHI	ALPHAH	BETA	CL.	CD	CLH
10.219	-1.170	.60940	19.17340	2.82560	.05290	.00000	9.73230	-4.99720	.20460	.04980	01230
16.227	1.973	.59930	18.74300	2.83210	.03910	-00000	9.73270	-4.98830	.23790	.05270	.00270
10.253	6.418	.68059	18.12870	2.85480	.02700	.00000	9.73250	-4.99490	.26550	.05700	.00530
10.286	13.777	.59970	17.11080	2.87030	.01650	.00000	9.73000	-4.98660	.30590	.06310	.00960
10.356	28.938	.60080	14.99660	2.68840	.00590	.00008	9.72870	-4.98820	.37480	.07320	.01180
10.397	44.164	.59940	12.87230	2.89650	.00370	.00000	9.72290	-4.96800	.42030	.08080	.01270
10.406	49.620	.59970	12.11340	2.69960	.00120	.00000	9.71950	-4.98780	.43160	.08260	.01550
	GRADIENT	.00000	.00000	.00860	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO.	. 672/ 0	RN/L =	3.28 GF	RADIENT INTER	VAL = -1.0	19/ 4.00			
ALPHAO	02	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
14.374	1.887	.59920	17.50970	2.70460	.03430	.00800	9.75470	-4.95350	.46800	.10370	.03650
14.386	5.082	.59950	17.08360	2.71260	.02630	.00000	9.75110	-4.94660	.48970	.10730	.03240
14.403	9.317	.60070	16.48990	2.74660	.01890	.00000	9.75120	-4.98660	.51350	.11210	.03250
14.432	16.929	.60930	15.44000	2.76710	.01050	.00000	9.74480	-4.99620	.55240	.11950	.03290
14.474	32.128	.60020	13.33850	2.77920	.00190	.00000	9.73740	-4.98690	.61390	.13380	.03100
14.499	46.955	.60020	11.26920	2.78500	00180	.00000	9.73650	-4.98880	.65370	. 14450	.02770
14.352	69. <b>7</b> 39	.60070	9.37410	2.79000	08980	.00000	9.72720	-4.9B790	.67750	15000	.02460
	COADICAT	00000	00000	00000	00000	00000					

4

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

			CAS	0 747/1	01 51	;	ORBITER DAT	A	EBGNOS	SB) (20 J	AN 75 1
	REFEREN	CE DATA							PARAHETRIC	DATA	
SREF = 2	2690.008D SO 474.8100 IN			0000 IN.XO				ALPHAC =	4.000	BETAC =	-5.638
BREF -	936.6800 IN	•	•	0080 IN.ZO				ELEVON =	.086 5.000	ELV-08 =	3.000
SCALE -	.0300							BETAO =	.000	HACH =	.600 .000
								DX =	.600	DY =	10.000
		RUN NO	). 776/ D	RN/L =	3.29 GR	ADIENT INTEI	RVAL = -1.0	30/ 4.66			
ALPHAO	ÐΖ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CO	CLH
10.526	-1.143	.60050	.82500	11.02580	.03330	.00000	5.B2390	-4.98300	.43230	.08240	.05050
10.516	1.191	.59940	.66590	11.02200	.03310	.00000	5.82210	-4.98350	.43980	.08200	.04150
10.514	5.570	.59990	.36930	11.02810	.02930	.00000	5.81590	-4.99570	.44960	.08170	.03460
10.520	13.286	.59990	15620	11.04100	.01980	.00000	5.81020	-4.97390	.46230	-08340	.03150
10.530	28.364	.59970	-1.16290	11.06950	.00500	.00000	5.80160	-4.99410	.48540	.08760	.02630
10.538	43.310	.60020	-2.20400	11.08460	00370	.00000	5.79490	-4.99160	.50290	.09010	.02080
10.536	47.655	.60050	-2.45960	11.08530	00430	.08000	5.79340	-4.99080	.50490	.09080	-01980
	GRADIENT	.00000	.00000	.00080	.00000	.00000	.00000	.00030	.00000	.00000	.00000
		RUN NO	. 782/ 0	RN/L =	3.21 GR/	DIENT INTER	RYAL = -1.0	10/ 4.00			
ALPHAO	DZ	HACH	ÐX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
14.852	1.732	.59980	39120	10.90410	.03150	.00000	5.85610	-4.98030	.70480	.16530	05350
14.836	4.566	.59980	58540	10.91290	.03110	.00080	5.85110	-4.98100	.71020	.16270	04020
14.828	8.860	.59930	88970	10.92830	.02600	.00000	5.84790	-4.97830	.69980	16200	.04310
14.824	16.510	.59970	-1.41720	10.95100	.01650	.00000	5.83890	-4.98390	.69960	.16340	04190
14.826	31.452	.59940	-2.44000	10.98190	.00210	.00000	5.82350	-4.99490	.71070	.16810	.03580
14.825	46.606	.59980	-3.48110	11.08070	00580	.08886	5.81640	-4.99650	.72230	.17130	.02840
14.822	61.410	.60010	-4.49630	11.01650	01520	.00000	5.80690	-4.99090	.72730	.17400	.02310
	GRADIENT	.00000	.00000	.60080	.00000	.00000	.00000	.00000	.08000	.00000	.00000

-.06922

-.00001

-.00046

.00000

-.00057

.00034

.00174

-.08003

-.00200

			CVS	747/1	01 51		ORBITER DA	ATA	(BGNO	68) ( <b>03</b> S	EP 75 )
	REFER	ENCE DATA							PARAHETRI	C DATA	
SREF .	2500 0000										
LREF =	2690.0000 9 474.9100			1080 IN.XO				ALPHAC =	4.000	BETAC -	-5.868
BREF .	936.6800			000 IN.YO				ELV-18 =	.380	ELV-08 =	3.000
SCALE =	.0300	in. 2:xu-	= 375.0	800 IN.ZO				ELEVON =	5.000	HACH =	-600
	.0555							BETAO -	.000	PHI =	-009
								DX =	10.000	DY =	10.000
		RUN NO.	O/ D	RN/L =	3.24	GRADIENT INTE	RVAL =	.00/ 12.00			
ALPHA0	DZ	HACH	DX	DY	BET/	ло Риј	ALPHAN	9ETA	CL	co	~
10.422	-2.280	.60090	10.86020	11.92480	.029		5.86230	-4.99080	.38250	.07568	CLH
10.405	1.098	.60050	10.63330	11.90880	.030		5.86150	-4.99070	.41140	.07350	.0527 <b>9</b> .02790
10.409	5.675		10.31780	11.91340	.026	600000.000	5.85890	-4.99290	.42190	.07430	.02510
10.422	13.013	.60030	9.81090	11.92200	.018	00000.009	5.85720	-4.98980	.44140	.07550	.02150
10.450	28.103	.60030	8.76710	11.94740	.004	900000.	5.84830	-5.00120	.45250	.07990	.02010
10.460	43.255	.60380	7.71670	11.95920	002	.00000	5.84498	-4.99910	.48720	.08330	-01800
10.461	46.967	.59980	7.48120	11.96490	005	00000.088	5.84130	-4.9985D	.48990	.06430	.01800
	GRADIENT	00009	06892	.00100	000	96 .00000	+.00057	00048	.00229	.08017	00061
		RUN NO.	0/0	RN/L =	3.24	GRADIENT INTER	IVAL = .	00.12.00			
ALPHAO	DZ	MACH	DX	DY	BETA	O PHI	ALPHAH	BETA	C1.	co	<b>~</b> u
14.683	.236	.60030	9.56110	11.00380	.021	30 .00000	5.88610	-4.98800	.55280	.14580	CLH
14.666	3.450	.59990	9.34130	11.79350	.022		5.88520	-4.98830	.67680	.14450	.05429
14.666	8.165	.59970	9.01260	11.80250	.017		5.88170	-4.98550	.67760	. 14540	.03750
14.674	15.415	.6003D	8.51160	11.82650	.609		5.87290	-4.99850	.68060	.14980	-03710
14.676	30.037	.59960	7.49850	11.85690	002		5.85430	-5.01000	.69850	. 15670	.03950
14.580	45.279	.59970	6.44230	11.87390	009		5.85630	-5.00380	.71190	.15676	.03210
14.691	60.620	.60010	5.37930	11.89030	018		5.84740	-4.99860	.71928	.16480	.02720 .02300
	GRADIENT	00097	06922	00001	008		- 00057	00020	00100	- 10100	•00308

DATE OF DEC 75 TABULATED SOURCE DATA - CA20

			CYS	0 747/1	01 SI	o	RBITER DATA		(BGN07	03 ( 20 J	W 75 1
	REFERENC	E DATA						i	PARAHETRIC	DATA	
LREF *	2690.0000 SQ. 474.8100 IN. 936.6800 IN. 0300	YHR	P = .(	0000 IN.XO 0000 IN.YO 0000 IN.ZO				ALPHAC = ELV-IB = ELEVON = ETAO = DX =	8.609 .600 5.600 .000	BETAC = ELV-08 = HACH = PHI = OY =	-5.000 3.008 .600 .000
		RUN N	o. <i>7</i> 79/ 0	RN/L •	3.26 GR	ADIENT INTER	VAL = -1.0	30/ 4.00			
ALPHAO 10.342 10.363 10.393 10.426 10.479 10.511	DZ -2.449 .833 5.429 12.730 27.999 42.823 46.832 GRADIENT	MACH .50020 .60030 .60040 .60070 .60040 .60060 .60080	DX 70020 -1.14560 -1.77560 -2.77410 -4.87390 -6.92000 -7.47470 .08000	DY 11.07990 11.06330 11.06390 11.07090 11.09480 11.11030 11.11169 .00000	8ETAO .03430 .04050 .03940 .03250 .01510 .00500 .00269 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 9.67310 9.67390 9.67190 9.66910 9.66510 9.65760 9.65660 .00000	BETA -4.95870 -4.95980 -4.97940 -4.98290 -4.98270 -4.98200 -4.97380 .00000	CL .25810 .29430 .31880 .35940 .41740 .45610 .46380 .60000	CD .05860 .06040 .06430 .06940 .07900 .08470 .08550	CLH .03958 .03720 .03800 .03440 .03150 .02480 .02250 .00000
ALPHAO 14.727 14.734 14.763 14.763 14.794 14.799	02 .234 3.279 7.626 15.024 30.355 45.003 60.205 GRAD1ENT	HACH .59910 .60060 .60090 .60080 .59910 .60080	0X -2.11200 -2.52880 -3.12530 -4.13640 -6.23900 -8.26830 -10.37530 13688	0Y 10.95930 10.95100 10.95380 10.95820 10.99580 11.02160 11.04200 00273	BETAO .03290 .03560 .03220 .02370 .00990 00320 01020 .00089	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 9.69510 9.69550 9.69940 9.68090 9.67220 9.66110 9.65630 00053	BETA -4.97390 -4.97670 -4.98000 -4.97890 -5.0088 -4.97740 -4.97420 00092	CL .56970 .57870 .58890 .61480 .65920 .68490 .69770	CB .12530 .12760 .13080 .13640 .15080 .15950 .16610	CLR .05580 .05380 .05500 .05210 .04540 .03660 .02970

CA20 747/1 01 51

ORBITER DATA

(8GNG71) ( 20 JAH 75 )

PARAMETRIC DATA

	F NC.	

REFERENCE	E DATA									
690,0000 SQ.F 474.8100 IN. 936.6900 IN. .0300	FT. XHRP YMRP ZMRP	<b>.</b> .(	0000 IN.YO				ALPHAC = ELV-IB = ELEVON = EETAO = DX =	8.080 .000 5.600 .000	BETAC = ELV-00 = HACH = PHI = DY =	-5.600 3.000 .600 .000
	RUN NO.	740/ 0	RN/L =	3.25 GRA	DIENT INTER	VAL = -1.0	10/ 4.00			
DZ =3. 964	MACH .59950	DX 9.54340	DY 11.98930	02010	PH1 .00000	ALPHAH 9.72770	8ETA -4.98500	CL .21570	CD .04860	CLH .02030
-1.071 3.575	.59930 .59930	9.14780 8.51140	11.96350 11.95450	.03160 .03510	00000.	9.72439	-4.99380	.27690	.05540	.01910 .01990 .01970
11.249 26.103	.59930 .59980	5.39230	11.98210	.01380	.00000	9.72030 9.71560	-5.00760 -5.00550	.38210	.07070	.02460 21150.
47.37B GRADIENT	.59990 .00000	2.42810	11.99460	.00110	.00000	9.71350 .00000	-4.98920 .00800	.00000	.07930 .00000	.01990 .00000
	RUN NO.	741/ 0	RN/L =	3.24 GR/	DIENT INTER	IVAL = -1.0	00/ 4.00			
DZ -1.395 1.311 6.124 13.813 28.816 43.625 58.608 GRADIENT	MACH .59950 .60060 .60020 .5996D .60080 .60060	DX 8.03360 7.66380 7.00200 5.93660 3.86530 1.80890 28100	DY 11.85890 11.85090 11.85400 11.85930 11.87690 11.99170 11.91350 .00000	BETAO .02640 .02930 .02630 .01610 .00400 00480 01270 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 9.75250 9.75100 9.74500 9.74180 9.73430 9.72650 9.72080	BETA -4.98160 -4.99080 -5.00250 -5.00110 -5.00730 -5.00060 -6.00520	CL .52020 .53630 .55740 .58450 .63390 .66860	CD .10900 .11130 .11570 .12330 .13640 .14720 .15950	02.8 .04190 .03730 .03759 .04160 .03940 .03550 .02970
	DZ -3.964 -1.071 3.575 11.249 26.103 41.260 47.378 GRADIENT DZ -1.395 1.311 6.124 13.813 28.816 43.625	#74.8100 IN. YMRP #36.6900 IN. ZMRP #36.69000 #36.69000 #36.690000 #36.6900000000000000000000000000000000000	S90.0000 SQ.FT. XMRP = 1109.0 474.8100 IN. YMRP = .0 936.6900 IN. ZMRP = 375.0 .0300  RUN ND. 740/ 0  DZ MACH DX -3.964 .59950 9.54340 -1.071 .59930 9.14760 3.575 .59930 8.51140 11.249 .59930 7.45290 47.378 .59980 5.39230 47.378 .59980 3.26540 47.378 .59980 3.26540 6RADIENT .00000 .00000  RUN NO. 741/ 0  DZ MACH DX -1.395 .59960 8.03360 1.311 .60060 7.66380 6.124 .60020 7.00200 13.613 .59960 5.93960 13.625 .60060 3.66530 43.625 .60060 -28100	S90.0000 SQ.FT. XHRP = 1109.0000 IN.XO 474.8100 IN. YMRP = .0000 IN.YO 936.6900 IN. ZHRP = 375.0000 IN.ZO .0300  RUN NO. 746/ 0 RN/L =  DZ HACH DX DY -3.964 .59950 9.54340 11.96350 -1.071 .59930 9.14760 11.96350 11.249 .59930 9.51440 11.96350 11.249 .59930 7.45290 11.96350 41.260 .59940 3.26540 11.99530 47.37B .59980 5.39230 11.98210 6RADIENT .00000 .00000 .00000  RUN NO. 741/ 0 RN/L =  DZ MACH DX DY -1.395 .59950 8.03360 11.65990 13.813 .59960 7.65380 11.65990 6.124 .60020 7.00200 11.65930 13.813 .59960 5.93960 11.65990 13.813 .59960 5.93960 11.65990 43.625 .60080 3.86530 11.87690 43.625 .60080 1.80090 11.89170 58.608 .60060 -28100 11.91350	S90.0000 SQ.FT. XHRP = 1109.0000 IN.X0 474.8100 IN. YMRP = .0000 IN.Y0 936.6900 IN. ZMRP = 375.0000 IN.Z0 .0300  RUN NO. 7407 0 RN/L = 3.25 GRA  DZ MACH DX DY BETAO -1.071 .59930 9.14780 11.98930 .02010 3.575 .59930 8.51140 11.95450 .03510 11.249 .59930 7.45290 11.96080 .03020 26.103 .59980 5.39230 11.98210 .01380 41.280 .59940 3.28540 11.99530 .00440 47.378 .59980 2.42810 11.99460 .00110 GRADIENT .00000 .00000 .00000 .00000  DZ MACH DX DY BETAO -1.395 .59950 8.03380 11.85890 .02640 13.311 .60060 7.66380 11.85900 .02630 13.813 .59960 5.93960 11.85930 .01810 28.816 .60080 3.86530 11.87690 .00480 43.625 .60080 1.80890 11.9135001270 58.808 .6006028100 11.9135001270	S90.0000 SQ.FT. XHRP = 1109.0000 IN.XO 474.8100 IN. YHRP = .0000 IN.YO 936.6900 IN. ZHRP = 375.0000 IN.ZO .0300  RUN NO. 740/ 0 RN/L = 3.25 GRADIENT INTER  DZ HACH DX DY BETAO PHI -3.964 .59950 9.54340 11.98330 .02010 .00000 3.575 .59930 9.14760 11.96350 .03510 .00000 11.249 .59930 7.45290 11.96350 .03510 .00000 26.103 .59980 5.39230 11.96090 .03020 .00000 41.260 .59940 3.28540 11.99530 .00440 .00000 47.378 .59930 2.42810 11.99460 .00110 .00000 47.378 .59930 2.42810 11.99460 .00110 .00000 GRADIENT .00000 .00000 .00000 .00000 .00000  BUN NO. 741/ 0 RN/L = 3.24 GRADIENT INTER  DZ MACH DX DY BETAO PHI -1.395 .59950 8.03360 11.85990 .02640 .00000 13.813 .69060 7.66380 11.85990 .02630 .00000 13.813 .59960 5.93960 11.85990 .02630 .00000 13.813 .59960 5.93960 11.85930 .01810 .00000 43.625 .60050 1.80890 11.89170 .00480 .00000 58.608 .60060 -28100 11.91350 -01270 .00000	690.0000 \$Q.FT. XHRP = 1109.0000 IN.X0 474.8100 IN. YHRP = .0000 IN.Y0 936.6900 IN. ZHRP = 375.0000 IN.Z0 .0300  RUN ND. 740/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.6  DZ MACH DX DY BETAO PHI ALPHAM -3.964 .59950 9.54340 11.98930 .02010 .00000 9.72770 -1.071 .59930 9.14760 11.96350 .03160 .00000 9.72740 3.575 .59930 8.51140 11.95450 .03510 .00000 9.72430 11.249 .59930 7.45290 11.96090 .03020 .00000 9.72600 26.103 .59980 5.39230 11.96090 .03020 .00000 9.72630 41.260 .59940 3.26540 11.99530 .00440 .00000 9.71560 47.378 .59990 2.42810 11.99460 .00110 .00000 9.71550 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000  RUN NO. 741/ 0 RN/L = 3.24 GRADIENT INTERVAL = -1.6  DZ MACH DX DY BETAO PHI ALPHAM -1.395 .59960 8.03380 11.85890 .02640 .00000 9.75250 1.311 .60060 7.65380 11.85930 .02640 .00000 9.75250 6.124 .60020 7.00200 11.85400 .02630 .00000 9.75100 13.813 .59960 5.93660 11.85930 .01610 .00000 9.74500 13.813 .59960 5.93660 11.85930 .01610 .00000 9.74500 13.813 .59960 5.93660 11.85930 .01610 .00000 9.73430 43.665 .6006028100 11.9135001270 .00000 9.72650 58.608 .6006028100 11.9135001270 .00000 9.72650	ALPHAC **  ***P4.8100 IN.	\$30.0000 \$0.FT. XHRP = 1109.0000 IN.X0	Section   Sect

DATE 01 DEC 75

#### TABLEATED SOURCE DATA - CARO

.00000

.00000

GRADIENT

.60060

PAGE 245

.00000

.00000

.00000

.00000

.00000

(BGN072) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC -5.000 1109.0800 IN.XO XHPP 2690.0000 SQ.FT. SREF 3.000 .000 ELV-08 -ELV-IB -YMRP OY.NI 8000. 474.8100 IN. LREF HACH .600 ELEVON -5.080 ZMRP 375.0000 IN.20 BREF -936.6800 IN. .000 .080 PHI BETAO = .0300 SCALE = 10.000 .000 DY ĐΧ GRADIENT INTERVAL = -1.00/ 4.00 3.27 RUN NO. 777/ 0 RN/L = CLM œ **BETAO** PHI ALPHAR BETA CL DX DY HACH **ALPHAO** ĐŽ .07970 .07970 .00000 5.82950 5.04410 .41540 8.80620 .04300 .60020 .82840 16.561 -1.260.06430 5.04880 .42830 .07950 5.82790 .65390 8.81240 .03620 .00000 1.334 .60070 10.547 .04960 5.82070 5.02710 .44460 .08050 .03050 .00000 8.81490 .34760 10.536 5.878 .60010 .08350 .04150 5.81370 5.02260 .46030 .02440 .00000 .60030 -.13900 8.81520 10.536 13.042 .08720 .02880 .48850 .00000 5.80310 5.03420 -1.15930 0.02060 .01180 .60038 10.541 28,032 .02250 .09060 5.03470 .50470 .00000 5.79570 8.83030 .08450 10.562 43.587 .59990 -2.23230 .02050 .09090 5.03480 .50850 .00240 .00000 5.79470 -2.46160 8.83200 .60050 47.071 10.545 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000 GRADIENT INTERVAL - -1.00/ 4.00 RN/L = 15.8 RUN NO. 783/ 0 CLH CL co BETA DΥ **BETAO** PHI ALPHAH HACH DX DZ **ALPHAO** .15740 .08110 5.00070 .68850 .03220 .00006 5.86770 8.87450 .60010 -.39220 14.885 1.660 .15540 .07170 .69020 .00000 5.86470 5.01010 .02700 .59920 -.60880 0.08830 4.767 14.865 .06110 . 15820 .02380 .00000 5.85730 5.01040 .69420 -.89480 8.88570 .59950 14.851 6.930 .70530 .16180 .04890 4.99900 8.90170 .01680 .00000 5.84480 14.843 16.495 .59930 -1.41200 .03580 .16920 .71590 5.82820 4.97980 8.92270 .00830 .00000 .60060 -2.44310 31.539 14.833 .02900 .17220 .00000 5 91730 4.98739 .72460 -.00030 8.93760 .60030 -3.48380 14.829 46.692 .17430 .02240 4.98860 .72990 5.81800 -.00770 .60000 -4.51590 8.95050 14.822 61.660 .59980

.00000

	XEC 75	TABUE	ATED SOURCE	DATA - CA	150					PA	GE 246
			CARC	747/1	01 SI	1	WEITER DAT	A	186N07	73) (30 J	UL 75 )
	REFERENC	E DATA							PARAMETRIC	DATA	
SREF =	2690.0000 <b>S</b> Q.	FT. XMRF	• 1109.C	000 IN.XO				ALPHAC =	4.000	BETAC .	5.000
LREF =	474.8100 IN,	YHR	.0	000 IN.YO				ELV-18 =	.000	ELV-08 =	3.000
BREF =	936.6800 IN.	ZHRP	* 375.0	000 IN.ZO				ELEVON -	5.000	HACH =	.608
SCALE =	.0300							BETAD =	.080	PHI =	.000
								DX =	10.000	DY =	16.000
		RUN NO	. 743/ 0	RN/L =	3.24 GRAI	DIENT INTER	WAL = -1.0	30/ 4.88			
ALPHAO	ĐΖ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL.	CD	CLH
ALPHAO 10.456	02 -2.278	MACH .60010	DX 10.85340	DY 7.94940	BETAO .03880	PH! .80000	ALPHAH 5.86640	BETA 5.03030	CL .37560	CD . 07060	
											.07190
10.456	-2.278	.60010	10.85340	7.94940	.03880	.00000	5.86640	5.03030	.37560	.07060	.07190 .05240
10.456 10.441	-2.278 .974	.60010 .59990	10.85340 10.63180	7.94940 7.95910	.03880 .03240	.00000	<b>5.866</b> 40 <b>5.86</b> 980	5.03030 5.01890	.37560 .39650	.07060 .07020	CLH .07190 .05240 .04040
10.456 10.441 10.437	-2.278 .974 5.632	.60010 .59990 .60000	10.85340 10.63180 10.31420	7.94940 7.95910 7.96140	.03880 .03240 .02670	.00000 .00000 00000	5.86640 5.86680 5.88360	5.03939 5.01690 5.06500	.37560 .39650 .41470	.07060 .07020 .07190	.07190 .05240 .04040
10.456 10.441 10.437 10.440	-2.278 .974 5.632 12.947	.60010 .59990 .60000 .60040	10.85340 10.63180 10.31420 9.81390	7.94940 7.95910 7.96140 7.96130	.03680 .03240 .02670 .02090	.00000 .00000 .00000	5.86640 5.86880 5.86880 5.88810	5.03939 5.01890 5.08590 5.00010	.37560 .39650 .41470 .43740	.07060 .07020 .07190 .07530	.07190 .05240 .04040 .03170
10.456 10.441 10.437 10.440 10.454	-2.278 .974 5.632 12.947 28.272	.60010 .59990 .60000 .60040	10.85340 10.63180 10.31420 9.81390 8.75740	7.94940 7.95910 7.96140 7.96130 7.96870	.03680 .03240 .02670 .02090 .00920	.00000 .00000 .00000 .00000	5.86640 5.86880 5.86860 5.85810 5.84940	5.03030 5.01890 5.00500 5.00010 4.99630	.37560 .39650 .41470 .43740 .47010	.07060 .07020 .07190 .07530 .07980	.07190 .05240 .04040

•			RUN NO	. 746/ 0	RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00								
	ALPHAO	DZ	MACH	אם	ĐY	BETAO	PHI	ALPHAH	BETA	CL	CB	CLH	
	14.699	.091	.60070	9.55470	8.04510	.01920	.00000	5.89040	5.01680	.63610	. 14110	.08300	
	14.686	3.398	.60890	9.33840	B.04540	.01660	.00000	5.89440	5.01960	.64430	.13900	.07080	
	14.677	8.089	.59980	9.01759	8.04550	.01310	.00000	5.87840	5.01900	.65940	. 14140	.05800	
	14.677	15.482	.60080	8.51410	0.04890	.00880	.00000	5.86910	5.00690	.67930	.14620	.04650	
	14.674	39.336	.59920	7.49140	8.06690	.00080	.00000	5.85560	5.00270	.70340	.15540	.03330	
	14.678	45.437	.59590	6.44350	9.08710	00550	.00000	5.64830	4.99500	.71200	.16130	.02930	
	14.674	60.598	.59920	5.39460	8.69960	01450	.00000	5.83970	5.00380	.72060	.16410	.02480	
		GRADIENT	.00005	06923	.00009	00078	.00000	00181	.00054	.00247	00063	09368	



DATE DI DEC 75

BREF =

SCALE =

REFERENCE DATA

YHRP =

RUN NO. 778/ 0

SREF = 2690.0000 SQ.FT.

936.6800 IN.

.0300

LREF = 474.8100 IN.

TABULATED SOURCE DATA - CA20

(BGN074) ( 20 JAN 75 ) CA20 747/1 01 SI ORBITER DATA PARAHETRIC DATA ALPHAC = 8.000 BETAC = 5.000 XMRP = 1109.0000 IN.XO ELY-08 = 3.000 ELV-18 + .080 .0000 IN.YO ELEVON -5.000 HACH .680 ZMRP = 375.0000 1N.ZO BETAO = .000 1H9 .000 .000 DY 10.000 ĐΧ GRADIENT INTERVAL = .-1.00/ 4.00 CLH BETA CL CD BETAO PHI ALPHAH

ALPHAO	DΖ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
10.386	-2.569	.68080	67920	8.78930	.04720	.00000	9.67710	5.05610	.26240	.05510	.07320
10.392	.494	.59990	-1.09610	8.79940	.03450	.00000	9.67430	5.04960	.28350	.05790	.05970
18.484	5.444	.59920	-1.77530	8.79630	.02930	.60000	9.67330	5.02910	.31770	.05270	.04900
10.446	12.879	.60080	-2.79560	8.78530	.02760	.00000	9.67050	5.02490	.36080	.06910	.04130
10.484	27.655	60070	-4.65200	9.77840	.01750	.00000	9.66630	5.03890	.42150	.07880	.03190
10.507	42.765	.60890	-6.91030	9.78230	.01070	.00000	9.65900	5.03980	.45750	.08490	.02580
10.510	46.810	.59970	-7.47130	8.78620	.00720	.00000	9.66000	5.04080	.46300	.08630	.02530
10.515	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00800	.00000
		RUN N	0. 785/ 0	RN/L =	3.20 GRA	DIENT INTER	IVAL = -1.0	0/ 4.00			
ALPHAO	DZ	HACH	ĐΧ	DY	BETAO	PHI	ALPHAU	BETA	CL	CD	CLH
14.769	.421	.60000	-2.15370	8.98200	.01960	.00000	9.69950	5.01660	.53640	. 12110	.09660
14.763	3.277	.60030	-2.53970	0.89780	.01780	.00000	9.69440	5.00270	.55430	. 12400	.08350
19.765	7.611	.60040	-3.12710	8.88370	.01750	.00000	9.68640	4.99670	. <del>5</del> 7690	.12900	.07240
14.776	14.697	.59960	-4.11930	8.86850	.01660	.00000	9.67900	5.00080	.61040	.13650	.06080
14.801	30.085	.60030	-6.19610	8.86980	.01090	.00000	9,66900	4.98280	.66030	. 15040	.04710
14.812	45.241	.60060	-8.28580	8.87710	.00540	.00000	9.66320	4.99950	.69890	.16060	.03720
14,809	60.161	.60050	-10.35530	8.90350	00530	.00000	9.65980	4.99330	.70080	. 16670	.03030
,	GRADIENT	.00811	13515	00147	00063	.00000	00179	08487	.00627	.00102	00459

CA20 747/1 01 S1

GRBITER DATA

(BCN075) ( 20 JAN 75 )

### REFERENCE DATA

### PARAMETRIC DATA

LREF =	690.0000 SQ 474.0100 IN 936.6000 IN	. YMF?	0	0000 IN.XO 0000 IN.YO 0000 IN.ZO				ALPHAC = ELV-IB * ELEVON * BETAO = OX =	8.000 .000 5.000 .000	BETAC = ELV-CB = HACH = PHI = DY =	5.000 3.000 .600 .000
		RUN NO.	744/ 0	RN/L =	3.24 GR	ADIENT INTER	RVAL.≑ -1.0	10/ 4.00			
ALPHAO	DZ	HACH	DX	ĐΥ	BETAG	PHI	ALPHAH	BETA	CL	CĐ	CLH
10.291	-4.255	.59990	9.60240	7.92050	.65460	.00880	9.71810	5.02020	. 22200	.04570	.66210
10.234	-1.016	.60000	9.14600	7.93820	.03580	.00000	9.72130	5.02130	.24170	.04850	.64440
10.295	3.234	.60090	8.55250	7.93280	.03080	.00000	9.71870	5.02420	.26940	.05260	.03700
10.325	10.653	.60020	7.54070	7.92720	.02590	.00000	9.71900	5.01130	.31670	.05930	.03050
10.321	26.076	.59950	5.40030	7.92620	.01500	.00000	9.71380	5.00840	. 38570	.07050	.02709
10.421	40.921	.60020	3.33920	7.93180	.00839	.08000	9.76970	5.00110	.43020	.07690	.02230
10.429	47.381	.59990	2.44259	7.93360	.00400	.00000	9.70550	5.08980	.44380	.87980	.02840
10.763	GRADIENT	.00000	.08800	.00000	.00000	.00000	.00000	.00000	.08080	.00000	.00000
		RUN NO.	745/ 0	RN/L =	3.23 GR	ADIENT INTER	RVAL = -1.0	00/ 4.00			
ALPHAO	ΩZ	насн	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
14.583	-1.882	.60010	8.09210	8.06760	.01710	.00000	9.74580	5.02630	.48080	. 10530	.09170
14.579	1.393	.59950	7.64570	8.08130	.61580	.00800	9.74410	5.01250	.50650	.10770	.07460
14.585	5.738	.60040	7.05370	8.64480	.01390	.00000	9.74010	5.01420	.53650	.11330	.06230
•		.60040	6.08200	B.03060	.01140	.00000	9.73450	5.00960	.57210	.12100	.05460
14.601	12.961 28.063	.59950	3.97810	8.02230	.00320	.00000	9.72720	5.08640	.63210	. 13530	.04280
14.629	42.937	.60070	1.91620	8.02230	-,00220	.00000	9.71930	4.99330	.66700	. 14640	.03720
14.652		.59950	15570	8.64120	00950	.00000	9.71390	5.00110	.68980	.15300	.02990
14.659	57.017 GRADIENT	.00000	.00000	.00000	.00000	.08080	.00000	.00000	.00000	.00000	.00000

DATE DI DEC 75

TABULATED SOURCE DATA - CARO

(BCH076) ( 20 JAN 75 ) CA20 747/1 01 51 ORBITER DATA PARAMETRIC DATA REFERENCE DATA -5.000 ALPHAC = 4.000 BETAC = = 2690.0000 SQ.FT. XHEP = 1109.0000 IN.XO SREF ELY-IB = .080 ELY-08 = 3.000 .0000 IN.YO YHRP 474.8100 IN. LREF 5.000 .600 ELEVON -HACH BREF -936.6800 IN. 7HRP 375.0000 IN.ZO 7.500 BETAO = .000 PHI .0300 SCALE = .080 DY .000 RUN NO. 700/ 0 RN/L = 3.24 GRADIENT INTERVAL - -1.00/ 4.00 CLH DY BETAD PHI ALPHAH BETA CL CD ALPHAO DZ MACH ÐΧ . 36450 7.50000 5.83850 -5.05488 .46040 .08020 .06130 -1.277 .59980 .83250 1.15460 10.498 5.83680 -5.04370 .41970 .08020 .04600 .35490 7.50000 10,489 2.021 .60000 .61190 1.18340 .03980 .32120 1.21560 .34580 7.50800 5.83320 -5.04788 .43340 .08140 .60080 6.318 10.492 .08390 .03200 .33660 7.50000 5.82810 -5.04000 .45430 1.24350 10.500 13.726 .60020 -. 18460 .09850 .02270 .32710 7.50000 5.81510 -5.04710 .48470 .60070 -1.20160 1.27850 28.693 10.510 -5.04020 .50090 .09158 .01790 -2.23760 1.28920 .32620 7.50000 5.00850 10.516 43.777 .60040 7.50000 5.80580 -5.04010 .50510 .09180 .01600 .59920 -2.47710 1.29290 .32410 10.513 47.275 .00000 .00000 .00000 .00000 .00000 .00000 .00800 .00000 GRADIENT .00000 .00000 RUN NO. 699/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00 CL CO CLH **ALPHAH** BETA DX DY BETAC PHI ALPHA0 ĐΖ HACH .06550 1.14030 .90370 7.50000 5.86610 -5.05330 .67440 .15910 .59900 -.38000 14.757 1.908 7.50000 5.86300 -5.04270 .67730 .15900 .05860 .89700 4.533 .59970 -.55960 1.15770 14.746 .16030 .05170 -5.04130 .69300 9.089 .59940 -.87360 1.17890 .69010 7.50000 5.85990 14.741 .04260 .88280 7,50000 5.84940 -5.04330 .69330 .16430 -1.39390 1.20160 14.736 15.707 .59980 5.83020 -5.04070 .71290 .17020 .03030 7.50000 14.734 31.718 .60020 -2.41740 1.22950 .87480 5.81970 -5.04800 .72560 .17189 .02690 .59920 -3.44230 1.23390 .87190 7.50000 14.739 46.644 .17350 .02210 5.81480 -5.03960 .73270 -4.47430 1.24610 .86560 7.50000 14.739 61.610 .60030 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000 .00000

.00000

.00000

GRADIENT

.00000

RUN NO. 679/ 0

ATAC NATIONO

GRADIENT INTERVAL = -1.00/ 4.00

(BGH077) ( 20 JAH 75 )

PARAMETRIC DATA

OCCEPTANTE	DATA

4.000 BETAC = -5.000 ALPHAC = SREF . 2580.0000 SQ.FT. XNRP . 1109.0000 IN.XO 3.000 ELY-08 = ELV-18 = .000 YMRP = ,0000 IN.YO LREF = 474.8100 IN. ELEVON = 5.000 HACH = .600 BREF - 936.6800 IN. ZMRP = 375.0000 IN.20 7.500 PHI .000 BETAD = .0300 SCALE = .000 DX 16.000 DY

RN/L = 3.29

ALFHA0	· DZ	HACH	DΧ	DY	BETAD	PHI	ALPHAH	BETA	CL	CD	CLH
10.372	-2,105	.50070	10.86713	2.01610	.34580	7,50000	5.85010	-5.00500	.34070	. 07440	.06830
	1.060	.59990	10.65570	2.02110	.34160	7.50000	5.84920	-4.96530	.37610	. 07540	. 04260
10.367		.65070	10.34240	2.05170	.33240	7.50000	5.84990	-4.98100	.39820	.07680	.03290
19.367	5.691		9.82060	2.03120	.32670	7.50000	5.84450	-4.99760	.42570	.07958	.02480
10.369	13.253	.60030		2.11400	.31800	7.50000	5.83790	-4.98730	.46410	.06450	.01660
10.411	20.269	.60010	8.78850		-	7.50000	5.82940	-4.98850	.48400	.08880	.01500
10.422	43.330	.59990	7.75290	2.12730	.31760		5.82760	-4.98840	.49020	.08800	.01270
10.423	40.502	.59940	7.39550	2.13120	.31640	7.50000			.00000	.00000	.00000
	GRADIENT	.08000	.00000	.00000	.00000	.00000	.00800	.00000	.00000	.00000	.00000
		RUN N	0. 680/ 0	RN/L =			VAL = -1.6			•	en 44
ALPHAO	DZ	HACH	DX	ÐY	BETAO	PHI	alphah	BETA	CL.	CD	CLH
14.694	.874	.60840	9.54550	1.96400	.89390	7.50080	5.87640	-4.96580	.62610	. 14510	.07800
14.667	4.232	.60010	9.31860	1.98550	.68800	7.50000	5.87720	-4.96930	.64510	. 14580	.05810
14.662	8.465	.60050	9.03360	2.01180	.68290	7.50000	5.87440	-4.99210	.65550	. 14750	.04967
14.663	16.057	.60090	8.51080	2.03990	.87710	7.50000	5.68600	-4.99960	.67230	. 15280	.04090
14.669	30.959	.59980	7.48720	2.05970	.87070	7.50000	5.85230	-4.98160	.69770	. 16040	.03130
14.672		.00100							20.10		00000
	AR DZR	59930	6.45690	2.06910	.85860	7.50000	5.84070	-4.9B100	.71410	. 16510	.02538
14.683	45.936 61.178	.59930 .59910	6.45690 6.39 <b>7</b> 30	2.08060 2.08060	.85860 00#88.	7.50000 7.50000	5.84070 5.83590	-4.98100 -4.98100	.72210	. 16510 . 16390	.02238



GRADIENT

.00000

.00000

.00800

TABULATED SOURCE DATA - CA20

PAGE 251 DATE 01 DEC 75 ORBITER DATA (BGN078) | 20 JAN 75 | 1 CA28 747/1 OL 51 PARAMETRIC DATA REFERENCE DATA B.000 BETAC = -5.000 ALPHAC = SREF = 2690.0000 SQ.FT. 1109.0000 IN.XO XHRP 3.000 ELV-IB -.000 ELV-08 \* 474.8100 IN. YHRP .0000 IN.YO LREF = ELEVON = 5.000 HACH .600 375.0000 IN.ZO 936.6800 IN. ZHRP BREF = .080 PHI 7.500 BETAO = SCALE = .0300 .000 .080 BY ĐΧ RN/L = 3.22 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 701/ 0 CLH DY BETAO PHI ALPHAN BETA CL ස ĐΧ ALPHAO ĐΖ MACH 9.69190 -5.04570 .23760 05310 .04380 1.09330 .39300 7.50000 .59970 -.83310 10.301 -1.522 .04050 7.50000 9.69140 -5.04160 .26780 .05780 1.720 .59990 -1.27100 1.13320 .37340 10.323 .30060 .06280 .03800 .35640 7.50800 9.69140 -5.04760 .60050 -1.86180 1.16510 6.033 10.358 .03280 -5.03900 .35620 .07130 .33730 7.50000 9.68470 15.288 .59980 -3.12410 1.24460 10.399 7.50000 9.68130 -5.04800 .41340 .07990 .02620 -4.95350 1.29230 .32740 28.550 .60080 10.452 .02010 9.67630 -5.04730 .45320 .08590 1.31350 .32720 7.50000 10.485 43.635 .59990 -7.04370 .01920 .32660 7.50000 9.67520 -5.03940 .46020 .08720 .60050 -7.528401.31640 10.490 47.136 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 698/ 0 RN/L = 3.31 CD CLH ALPHAH BETA CL DΖ HACH DX DY BETAO PHI **ALPHAO** .06890 9.67920 -5,05090 .53810 .11820 .60080 -2.26150 1.07140 .92630 7.50000 14.639 1.551 .06300 .12180 1.10830 .91390 7.50000 9.67710 -5.04860 .55570 -2.65160 14.648 4.440 .59940 .12830 .05680 -3.26780 .90190 7.50000 9.67380 -5.02670 ,58288 14.662 9.007 .60060 1.14300 -5.05088 .62020 .13800 .04780 7.50000 9.66390 16.752 .69000 -4.31660 1.19170 .68790 14.679 .15240 .03750 .87700 7.50000 9.64870 -5.03090 .66360 31.550 .60040 -6.33690 1.23600 14.781 .87320 7.50000 9.64450 -5.04770 .69660 .16140 .03190 -0.39590 1.26140 46.466 .60008 14.713 .16640 .02620 9.63820 -5.04710 .70260 .86540 7.50000 .60846 -10.46660 1.28150 14.722 61.470

.00000

.00000

.00000

.00000

.00000

.00800

ORBITER DATA

(BGN079) ( 20 JAR 75 )

CA20 747/1 01 S1

-.00004

GRADIENT

-.13342

.01299

-.80450

	REFERENC	E DATA							PARAHETRIC	DATA	
SREF = 6 LREF = GREF = SCALE =	.0300 0000 50. 474.0100 IN. 474.0100 IN. 0000	YMRP	00	180 IN.XO 180 IN.YO 180 IN.ZO				ALPHAC = ELV-18 = ELEVON = BETAO = OX =	8.000 .000 5.000 .000	BETAC = ELV-08 = HACH = PHI = DY =	-5.000 3.000 .600 7.500
		RUN NO.	685 <b>\ 0</b>	RN/L =	3.27 GR	ADIENT INTER	WAL = -1.0	0/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
16.182	-3.146	.59980	9.44330	1.93780	.37820	7.50006	9.72010	-4.99620	.17010	.04720	.04080
10.201	191	.60050	9.04330	1.97280	.36380	7.50000	9.72230	-4.99230	.21510	.05130	.02650
10.223	4.382	.60020	8.42140	2.02160	.34460	7.50000	9.72080	-4.98760	.25350	.05610	.02310
10.263	11.935	.60030	7.39160	2.08800	.32870	7.50000	9.71950	-4.97890	.30140	.66350	.02320
10.337	28.649	.59930	5.31290	2.12680	.31790	7.50000	9.71460	-4.99590	.37680	. 07440	.01980
10.377	42.008	.60020	3.20820	2.14560	.31730	7.50000	9.70990	-4.98020	.42650	.08150	.01690
10.398	48.959	.60000	2.23740	2.15750	.31550	7.50000	9.71490	-4. <del>9</del> 8770	.43860	.08420	.01630
	GRADIENT	.00000	.00000	.00800	.00000	.00000	.08880	.08080	-00000	.00000	.00000
		RUN NO.	681/ B	RN/L =	3.27 GR	ADIENT INTER	IVAL = -1.0	10/ 4.60			
ALPHAO	DZ	MACH	ÐX	ĐΥ	BETAG	PHI	ALPHAH	BETA	CL.	CD	CLH
14.540	899	.68080	7.97090	1.87070	.91980	7.50000	9.74650	-4.97150	.44890	.10530	.07720
14.539	1.681	.60070	7.62670	1.90420	.90820	7.50000	9.74960	-4.96080	.48470	.10890	.05960
14.550	6.191	.59980	7.01630	1.94450	.89580	7.50000	9.74380	-4.94870	.52070	.11400	.05010
14.577	13.668	.60030	5.99450	2.00576	.89320	7.58000	9.73710	-4.98970	.56530	.12280	.04350
14.626	28.859	.60080	3.98510	2.06670	.86940	7.50000	9.72640	-4.99530	.63110	.13930	.03700
14.654	43.807	.60030	1.83050	2.08630	.86880	7.50000	9.72090	-4.98930	.67060	.14990	.03040
14.669	59.633	.59980	~.23580	2.09830	.06650	7.50000	9.71490	-4.98080	.69840	.15700	.02800

.00000

.00120

.00415

.01388

.00140

-.00582

DATE 01 GEC 75

#### TABULATED SOURCE DATA - CA20

PAGE 253

DAIL OF DE	·										
			CAZO	747/1	01 51	C	RBITER DATA	•	1BGN08	o) (50 m	W 75 1
	REFERENC	E DATA						İ	PARAHETRIC	DATA	
SREF = 2	690.0000 SQ.	FT. XMRP	* 1109.0	080 IN.XO				ALPHAC =	4.000	BETAC =	-5.000
	474.8108 IN.			000 IN.YO				ELV-IB =	.000	ELV-08 =	3.000
	936.6800 IN.	• • • • • • • • • • • • • • • • • • • •		000 IN.ZO				ELEVON =	5.000	HACH =	.600
	.0300		- 31310					BETAG =	.000	PHI ·	7.500
SCALE =	.0300							DX =	.000	DY -	10.000
		RUN NO	. 791/ 0	RN/L -	3.34 GR	ADIENT INTER	RVAL = -1.0	10/ 4.00			
	DZ	MACH	DX	ÐY	BETAO	PHI	ALPHAH	BETA	CŁ	CD	CLH
ALPHAO 10.543	.273	.59960	.69350	11.14360	,36720	7.50000	5,84270	-4.98690	.41120	.08040	.04690
10.537	3.154	.59930	.49810	11.15020	.36560	7.50000	5.84120	-4.97990	.42310	.07960	.03750
10.543	7.602	.60010	. 19640	11.16160	.36070	7.50000	5.83540	-4.97360	.43350	.08070	.03440
10.548	14.948	.59920	30580	11.10100	.35240	7.50000	5.83280	-4.98370	.44980	.08250	.02990
10.563	30.456	.60020	-1.36340	11.21710	.33670	7.50000	5.82120	-4.98510	.47610	.08730	.02580
10.569	45.266	.59930	-2.39270	11.23800	.33050	7.50000	5.81720	-4,98950	.49730	.08970	.01850
10.553	47.765	.60090	-2.55600	11.24380	.32880	7.50060	5.81590	-4.99580	.49760	.09010	.01830
10.575	GRADIENT	00010	06781	.00229	00056	.00000	00052	.00243	.00413	00028	00326
		RUN NO	. 792/ 0	RN/L =	3.33 GR	ADIENT INTER	RVAL + -1.0	00/ 4.00			
ALPHAD	DZ	MACH	DХ	DY	BETAO	PHI	ALPHAN	BETA	CL.	CD	CLH
14.693	2.086	.60000	37990	11.08210	.90280	7.50000	5.87000	-4.98910	.70480	. 15460	-03610
14.684	4.708	.60010	56200	11.09160	00000.	7.50000	5.87020	<del>-4.9</del> 9190	.70630	. 15440	.03010
14.679	9.002	.60060	65020	11.10680	.89490	7.50000	5.86130	-4.96940	.70290	. 15510	.02870
14.693	16.393	.60070	-1.37540	11.13310	.89490	7.50000	5.85650	-4.89530	.69690	.15790	.03330
14.691	31.443	.59920	-2.41210	11.16780	.87000	7.50000	5.83990	-4.99270	.70530	.16370	.03310
14.694	46.562	.59340	-3.45170	11.16970	.66380	7.50000	5.02940	-4.99250	.71750	. 16738	.02700
14.693	61.369	.59950	-4.47690	11.20770	.65570	7.50000	5.82430	-4.98120	.72290	.17010	.02450
17.033	GRADIENT	.00000	.00800	.00800	.00000	.00000	.00000	.00000	.00000	.00000	.00000

10,000

CA28 747/1 01 St

ORBITER DATA

(BGN0B1) ( 20 JAN 75 )

REI	FFI	251	<b>ICF</b>	. U	ATA	

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO OY.NI 8888. \* 984Y LREF = 474.8100 IN. BREF = 936.6800 IN. ZMRP - 375.0000 IN.20 .0300 SCALE -

4.000 BETAC \* -5.008 ALPHAC = .000 ELV-08 = 3.000 ELV-IB . .600 5.000 MACH -ELEVON = PHI 7.500 .000 BETAO -

10.080

DY

. PARAPETRIC DATA

DX =

RUN NO. 752/ 0 RN/L # 3.25 GRADIENT INTERVAL # -1.00/ 4.00

ALPHAO 10.346 10.345 10.354 10.391 10.403 10.412	0Z -1.602 1.402 5.906 13.316 29.645 43.525 47.221 GRADIENT	HACH .60090 .60060 .60020 .60020 .60020 .60020	DX 10.84680 10.63530 10.33290 9.81780 8.76420 7.73690 7.48460 .00800	DY 11.99480 12.00080 12.01730 12.03110 12.06720 12.06630 12.09630 12.09790	BETAO .37538 .37550 .37080 .36559 .35169 .34460 .34240	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAM 5.85440 5.85520 6.85220 5.84870 5.84180 5.83600 5.83250	6ETA -4.97960 -4.98010 -4.98920 -4.98350 -4.99350 -4.99070 -4.96240 .00000	CL .39050 .40340 .41520 .43260 .46720 .46680 .49130	.07380 .07380 .07340 .07450 .07740 .08180 .08520 .08590	.03109 .02430 .02380 .02370 .01960 .01710 .01590 .00000
--------------------------------------------------------------------	------------------------------------------------------------------------------------	------------------------------------------------------------------	----------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	---------------------------------------------------------------------	-------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------

RUN NO. 755/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 14.608 14.598 14.593 14.599 14.613 14.617	02 240 2 .722 7 .480 14 .602 29 .697 44 .725 59 .760 GRADIENT	MACH .60090 .60030 .60030 .60000 .59950 .60020	DX 9.64110 9.43840 9.11160 6.62320 7.57480 6.53910 5.50160 06844	0Y 11.90700 11.92140 11.93390 11.95980 12.0060 12.02150 12.03780 .00486	BETAO .92390 .92500 .92030 .91230 .69630 .69640 .68140	PHI 7.50800 7.50800 7.50800 7.50800 7.50800 7.50800 7.50800 7.50800 .00000	ALPHAH 5.87640 5.87630 5.87390 5.86680 5.85700 5.84550 5.83640 00003	BETA -4.97970 -4.98890 -4.98370 -4.99540 -5.00190 -4.99030 -4.99030	66840 .66840 .67880 .68730 .69590 .69780 .71210 .72250	CB .14120 .14060 .14220 .14670 .15720 .16640 .16630 00020	CLH .04030 .02930 .02330 .02110 .02970 .02490 .02120
--------------------------------------------------------------------	---------------------------------------------------------------------------------------	------------------------------------------------------------------	------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	-----------------------------------------------------------------------------------	---------------------------------------------------------------------------



DATE OF DEC 75

**GRADIENT** 

.00000

.00000

TABULATED SOURCE DATA - CA20

PAGE 255 (BCN082) ( 20 JAN 75 ) CA20 747/1 01 S1 ORBITER DATA PARAMETRIC DATA REFERENCE DATA 8.600 BETAC . -5.000 ALPHAC = XHRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. 3.000 ELV-18 \* .000 ELY-08 = YMRP .0000 IN.YO LREF = 474.8100 IN. .600 ELEVON = 5.600 HACH 375.0000 IN.ZO 936.6800 IN. ZHRP = BREF -.000 PHI 7.500 BETAO . SCALE = .0300 10.000 .000 ŊΥ DX GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.28 RUN NO. "98/ 0 ALPHAH BETA CŁ CO CLH DY BETAO PHI HACH ĐΧ ĐΖ ALPHAO .03800 .05540 .35700 7.50000 9.65950 -4.98570 .24910 11.14970 -.270 .60070 -1.00870 10.341 .03560 .05510 11.14280 .37710 7.50000 9.65970 -4.99610 .25090 .59920 -1.21140 .652 10.486 9.65670 -4.97910 .27780 .05880 .03520 7.50000 .36160 .59990 -1.45750 11.15070 10.365 3.053 .03380 -4.98830 .30720 .06290 9.65760 .59900 -2.06810 11.16310 .36080 7.50000 10.389 7.538 .06900 .03300 7.50000 9.65440 -4.99010 .34740 ~3.06390 11.18630 .35350 10.427 14.849 .60020 .03800 .40790 .07910 7.50000 9.64830 -4.98980 .34070 30.104 .59970 -5.16390 11,23050 10,498 .44810 .CB480 .02430 .33340 7.50000 9.64570 -4.98770 .60050 -7.17850 11.25610 44.754 10.519 .08560 .02320 9.64270 ~4.98730 .45300 -7.52920 11.25990 .33110 7,50000 10.519 47.323 .60030 .00113 -.00071 -.00092 .00217 .00915 -.12851 .00090 -.00019 -.00000 GRADIENT -.00013 GRADIENT INTERVAL = -1.00/ 4.00 3.29 RUN NO. 797/ 0 RN/L = CD CLH BETA CL DY **BETAO** PHI **ALPHAH** HACH DX **ALPHAO** DZ .04120 .11810 7.50000 9.69240 -4.98790 .57030 .59940 -2.24660 11.09770 .98490 1.523 14.589 .03840 .98410 7.50000 9.69750 -4.98930 .58270 .12050 .69089 -2.69170 11.10310 4.729 14.599 9.68610 -4.97690 .59830 .12540 .03560 -3.22950 11.10210 .90100 7.50000 0.739 .60080 14.608 .13390 .04270 -4.99550 .61440 11.12770 .89130 7.50000 9.67900 -4.26990 14.637 16.314 .59990 .65850 .14670 .03790 .87570 7.50000 9.65570 -4.99090 .59930 -6.28400 11.17200 14.659 31.043 .15670 .03450 9.65840 -4.93970 .69160 .60030 -8.38199 11.20280 .86730 7.50000 46.253 14.697 -4.98740 .69780 .16320 .02870 -10.46720 11.22980 .65990 7.50000 9.64990 .60050 14.695 61.364

.00000

.00000

.00000

.00000

.00000

.00000

.00000

DATE DI DE	EC 75	TABUL, A	TED SOURCE	E DATA - CA	20					P.	IGE 258
			CVS	3 747/1	01 SI	c	RBITER DATA		(BCH08	3) 120.	JAN 75 3
	REFERENCE	DATA							PARAHETRIC	DATA	
SREF = 2 LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	T. XHRP YHRP ZHRP		3800 IN.XO 3000 IN.YO 3000 IN.ZO				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	8.000 .000 5.000 .000 10.000	BETAC = ELV-08 = MACH = PHI = DY =	-5.000 3.000 .600 7.500 10.000
		RUN NO.	753/ 0	RN/L =	3.25 GRA	DIENT INTER	WAL = -1.0	30/ 4.00			
	0.7								a	co	CIH
ALPHAO		HACH	DХ	ĎΥ	BETAO	PHI	ALPHAH	BETA	CL .20540	CD . በ <del>47</del> 750	CLH .01350
10.157	-4.055	HACH .59920	DX 9.58440	DY 12.02470	BETAO .35460	PHI 7.58000	ALPHAH 9.72220	BETA -4.97930	.20540	.04730	.01360
10.157 10.183	-4.055 -1.077	HACH .59920 .59910	DX 9.58448 9.17960	DY 12.02470 12.01420	BETAO .35460 .36780	PHI 7.58000 7.50000	ALPHAH 9.72220 9.72250	8ETA -4.97930 -4.98720	.20540 .23800	.04730 .05050	.01 <b>360</b> .0129 <b>0</b>
10.157	-4.055 -1.077 3.434	HACH .59920 .59910	9.58448 9.17960 8.65730	DY 12.02470 12.01420 12.01330	BETAO .35460 .36780 .37270	PHI 7.50000 7.50000 7.50000	ALPHAN 9.7220 9.72250 9.72190	8ETA -4.97930 -4.98720 -4.98040	.20540 .23800 .26470	.04730 .05050 .05530	.01360 .01290 .01850
10.157 10.183	-4.055 -1.077	HACH .59920 .59910	DX 9.58448 9.17960	DY 12.02470 12.01420	BETAO .35460 .36780 .37270 .36920	PHI 7.58000 7.50000 7.50000 7.50000	ALPHAH 9.72220 9.72250 9.72190 9.72090	8ETA -4.97930 -4.98720 -4.98040 -4.93020	.20540 .23800 .26470 .31200	.04730 .85050 .05530 .06110	.01360 .01290 .01850 .01930
10.157 10.183 10.217	-4.055 -1.077 3.434	HACH .59920 .59910	9.58448 9.17960 8.65730	DY 12.02470 12.01420 12.01330	BETAO .35460 .36780 .37270	PHI 7.50000 7.50000 7.50000	ALPKAH 9.72220 9.72250 9.72190 9.72090 9.71850	8ETA -4.9793D -4.98720 -4.98040 -4.99020 -4.99130	.20540 .23800 .26470 .31280 .38240	.04730 .05050 .05530 .06110 .07160	.01360 .01290 .01850 .01930
10.157 10.183 10.217 10.253	-4.055 -1.077 3.434 10.894	HACH .59920 .59910 .59910 .69950	9.58448 9.17960 8.55730 7.53340	DY 12.02470 12.01420 12.01330 12.03380	BETAO .35460 .36780 .37270 .36920	PHI 7.58000 7.50000 7.50000 7.50000	ALPHAH 9.72220 9.72250 9.72190 9.72090	8ETA -4.97930 -4.98720 -4.98040 -4.93020	.20540 .23800 .26470 .31200	.04730 .85050 .05530 .06110	.01350 .01290 .01650 .01930 .02130
10.157 10.183 10.217 10.253 10.325	-4.055 -1.077 3.434 10.884 26.227	MACH .59920 .59910 .59910 .59950	9.58448 9.17960 6.65730 7.53340 5.40650	DY 12.02470 12.01420 12.01330 12.03380 12.07790	BETAO .35460 .36780 .37270 .36920 .35530	PHI 7.59999 7.59999 7.59999 7.59999	ALPKAH 9.72220 9.72250 9.72190 9.72090 9.71850	8ETA -4.9793D -4.98720 -4.98040 -4.99020 -4.99130	.20540 .23800 .26470 .31280 .38240	.04730 .05050 .05530 .06110 .07160	.01360 .01290 .01850 .01930

	run no	. 754/ 0	RN/L =	3.25 GR	ADIENT INTER	IVAL = -1.	00/ 4.00			
DZ	MACH	DХ	DY	BETAO	PHI	ALPHAH	BETA	CL	CO	CLH
-1.093	.59930	8.03390	11.93300	.92370	7.50000	9.74720	-4.98020	.52190	.10540	.02850
	.59970	7.63200	11.94850	.92590	7.50000	9.74680	-4.99710	.53970	.10750	.02500
	.59980	7.04460	11.94340	.92410	7.50000	9.74439	-4.98480	.56290	.11160	.02320
		6.00510	11.95290	.91650	7.50800	9.73740	<b>-4</b> .98940	.59750	.12010	.02500
	.60020	3.90070	12.00290	.69970	7.50000	9.72870	-4.99460	.64130	.13600	.03170
44.022	.59940	05508.1	12.03180	.69130	7.50000	9.72270	-4.99150	.67250	. 14740	.03030
59.528	.60060	22260	12.05010	.68300	7.50000	9.71910	-4.99690	.68790	. 15650	.02940
GRADIENT	.00000	.00000	.60000	.00000	.00000	.08880	.00000	.00000	.00000	.00000
	-1.003 1.853 6.138 13.721 28.934 44.022 58.528	DZ HACH -1.083 .59930 1.853 .59970 6.138 .59980 13.721 .60080 28.934 .60020 44.022 .59940 59.528 .60060	DZ HACH DX -1.083 .58930 8.03389 1.853 .58976 7.63200 6.138 .58980 7.04460 13.721 .60080 6.00510 28.934 .60020 3.80070 44.022 .58940 1.60220 58.528 .6006022260	DZ MACH DX DY -1.083 .59930 8.03390 11.93300 1.853 .59976 7.63200 11.94050 6.138 .59980 7.04460 11.94340 13.721 .60080 6.00510 11.95290 28.934 .60020 3.90070 12.00280 44.022 .59940 1.80220 12.03180 59.528 .6006022260 12.06010	DZ         MACH         DX         DY         BETAO           -1.003         .59930         8.03390         11.93300         .92370           1.853         .59970         7.63200         11.94050         .92590           6.138         .59980         7.04460         11.94340         .92410           13.721         .60080         6.00510         11.95290         .91650           28.934         .60020         3.90070         12.00290         .69970           44.022         .59940         1.80220         12.03180         .69130           59.528         .60060        22260         12.06010         .68300	DZ         MACH         DX         DY         BETAO         PHI           -1.083         .59930         8.03390         11.93300         .92370         7.50000           1.853         .59976         7.63200         11.94050         .92590         7.50000           6.138         .59980         7.04460         11.94340         .92410         7.50000           13.721         .60080         6.00510         11.95290         .91650         7.50000           28.934         .60020         3.90070         12.00290         .69970         7.50000           44.022         .59940         1.80220         12.03180         .69130         7.50000           59.528         .60060        22260         12.06010         .68300         7.50000	DZ MACH DX DY BETAO PHI ALPHAM -1.003 .59930 8.03390 11.93300 .92370 7.50000 9.74720 1.853 .59970 7.63200 11.94050 .92590 7.50000 9.74680 6.138 .59980 7.04460 11.94340 .92410 7.50000 9.74430 13.721 .60080 6.00510 11.95290 .91650 7.50000 9.73740 28.934 .60020 3.90070 12.00280 .89970 7.50000 9.72870 44.022 .59940 1.80220 12.03180 .69130 7.50000 9.72270 59.528 .6006022260 12.06010 .68300 7.50000 9.71910	DZ         HACH         DX         DY         BETAO         PHI         ALPHAH         BETA           -1.003         .59930         8.03380         11.93300         .92370         7.50000         9.74720         -4.98020           1.853         .59970         7.63200         11.94050         .92590         7.50000         9.74680         -4.99710           6.138         .59800         7.04460         11.94340         .92410         7.50000         9.74430         -4.98480           13.721         .60080         6.00510         11.95290         .91650         7.50000         9.73740         -4.98940           28.934         .60020         3.90070         12.00280         .69970         7.50000         9.72870         -4.99460           44.022         .59940         1.80220         12.03180         .69130         7.50000         9.72270         -4.99150           59.528         .60060        22260         12.08010         .68300         7.50000         9.71910         -4.93680	DZ         MACH         DX         DY         BETAO         PHI         ALPHAH         BETA         CL           -1.003         .5930         8.03390         11.93300         .92370         7.50000         9.74720         -4.98020         .52190           1.853         .59370         7.63200         11.94050         .92590         7.50000         9.74680         -4.99710         .53970           6.138         .59380         7.04460         11.94340         .92410         7.50000         9.74430         -4.98480         .56290           13.721         .60080         6.00510         11.95290         .91650         7.50000         9.73740         -4.98940         .59750           28.934         .60020         3.80070         12.00280         .89970         7.50000         9.72870         -4.99460         .64130           44.022         .59940         1.80220         12.03180         .69130         7.50000         9.71910         -4.99150         .67250           59.528         .60060        2260         12.06010         .68300         7.50000         9.71910         -4.9680         .68790	DZ MACH DX DY BETAO PHI ALPHAH BETA CL CO -1.083 .59930 8.03390 11.93300 .92370 7.50000 9.74720 -4.98020 .52190 .10540 1.853 .59970 7.63200 11.94050 .92590 7.50000 9.74680 -4.99710 .53970 .10760 6.138 .59980 7.04460 11.94340 .92410 7.50000 9.74430 -4.98480 .56290 .11160 13.721 .60080 6.00510 11.96290 .91650 7.50000 9.73740 -4.98940 .59750 .12010 28.934 .60020 3.90070 12.00290 .89970 7.50000 9.72870 -4.99460 .64130 .13600 44.022 .59940 1.80220 12.03180 .69130 7.50000 9.72270 -4.99150 .67250 .14740 59.528 .6006022260 12.06010 .88300 7.50000 9.71910 -4.99890 .69790 .15650

DATE DI DE	C 75	TABUL	ATED SOURCE	DATA - CA	20					PAG	E 257
			CA20	747/1	01 S1	C	RBITER DATA	•	(BGN08	AL 05 ) te	N 75 )
	REFERENC	E DATA							PARAHETRIC	DATA	
	690.0000 SQ.I 474.8100 IN.	FT. XMRP YMRP		00.NI 000 07.NI 000				ALPHAC = ELV-18 =	4.000 .000	BETAC = ELV-08 =	.000 3.000
BREF = SCALE =	.NI 0088.8E0 00E0.	ZHRP	= 375.0	080 IN.ZO				ELEVON = BETAO = DX =	5.000 .000 .000	HACH = PH1 = DY =	.600 7.500 .000
		RUN NO	. 705/ 0	RN/L =	3.19 GR/	ADIENT INTER	RVAL = -1.0	10/ 4.00			
ALPHA0	DZ	HACH	DX	DY	BETAO	PH!	ALPHAH	BETA	CL	CD	CLH
10.477	781	.59990	.78190	.11400	.33540	7.58000	5.94610	00740	.40610	.07940	.05800
10.470	1.431	.60020	.62900	.11610	.33470	7.50000	5.94350	80560	.41730	.07940	.04770
10.466	6.105	.59930	.30370	. 12250	.33340	7.50000	5.93640	00330	.43140	.08050	.03890
10.472	13.569	.60000	21640	.13300	.33140	7.50000	5.92780	00960	.45170	.09320	.03070
10.485	28.308	.59950	-1.25130	. 14890	.32590	7.50000	5.91880	- 00190	.47910	.0880	.02380
10.489	43.532	.59950	-2.31820	. 15620	. 32600	7.50000	5.90860	00070	.50010	.09080	.01610
10.498	47.201	.59940	-2.59010	. 15820	. 32490	7.50880	5.90960	00060	.50280	.09150	.01510
	GRADIENT	.00014	06913	.00095	00032	.00000	COLID	.08081	.00506	.00000	00466
		RUN NO	. 704/ 0	RN/L =	3.19 GR	ADIENT INTER	RVAL = -1.0	10/ 4.00			
ALPHAO	DZ	HACH	DX	ÐY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
15.435	6.448	.59970	69570	. 16150	.97600	7.50800	5.86270	00920	.68020	. 16350	.05550
15.428	9.304	.59980	69700	. 16320	.97388	7.50000	5.85950	01440	.67528	.16310	.05550
15.423	12.075	.59960	-1.14210	.16420	.97360	7.50800	5.85340	01150	.67850	.16430	.04960
15.412	20.640	.59920	-1.67000	. 17050	.96990	7.50000	5.03730	00340	.68840	.16820	.04110
15.415	36.108	.60000	-2.72220	.18780	.96590	7.50000	5.81930	00920	.70910	. 17420	.02830
15.414	50.653	.59970	-3.71920	.19160	.95360	7.50000	5.00020	00090	.71540	.17810	.02490
14.600	60.670	.60080	-4.54030	.20570	.84990	7.50000	5.91280	.00730	.72260	.17150	.02150
15.413	65.386	.59960	-4.73040	.20630	.95590	7.50000	5.80070	00040	.72080	. 17980	.02190
	GRADIENT	.00000	.00000	.00000	.08000	.00000	.00009	.00080	.00000	.00000	.00000

.00000

.00000

.00000

GRADIENT

.00000

.00000

## ORBITER DATA

(BGH085) ( 20 JAN 75 )

						-							
	REFER	ENCE DATA									PARAMETRIC	DATA	
SREF = 2	690.0000	SO.FT. XM	gp =	1109.4	0000 IN.XO					ALPHAC =	4.880	BETAC .	.000
	474.8100		RP =		0000 IN.YO					ELV-18 =	.000	ELV-08 =	3.000
	936.6800	•	KP =	375.1	0000 IN. <b>ZO</b>					ELEVON =	5.000	NACH =	.630
SCALE =	.0300									e CATES	.080	PHI =	7.500
, one	,,,,,									DX =	10.080	OY =	.000
		RUN	NO. E	86/ 0	RN/L =	3.25	GRAD1	ENT INTER	RVAL = -1.0	0/ 4.80			
ALPHAO	DZ	MACH	7	X	DY	BETAG	0	PHI	ALPHAN	BETA	CL	CD	CLH
10.398	-1.550	.59991	10.	03680	.08910	.3268	20	7.50000	5.88960	.00820	.36390	.07520	.06060
10.383	1.373	.59991	10.	63990	.09070	.326	10	7.50000	<b>5.6</b> 5880	.00850	.38250	.0 <b>7</b> 4 <b>90</b>	.04380
10.381	5.899	.59950	10.	33220	.09770	.325	20	7.50000	5.86370	.01110	.40210	.07590	.03230
10.388	13.274	.59930	9.	82720	. 10370	. 3249	80	7.50000	5.85710	.01310	.42610	.07890	.02440
10.407	28.273	.59950	ι θ.	79640	. 1 1890	.319	60	7.50000	5.64670	.02070	.46210	.08480	.01750
10.420	43.578	.60000	1 7.	73890	.13010	.319		7.50000	5.83970	.01420	.48360	.09850	.01410
16.422	48.458	.59940	7.	40080	. 13490	.319	l D	7.50000	5.83800	.01410	.48920	.08920	.01260
	GRADIENT	.00000	) ,	00800	.00000	.000	00	.00800	.00800	.00000	.00000	.00000	.00000
		RUN	NO. E	i85/ O	RN/L =	3.26	GRADI	ENT INTE	RVAL = -1.0	0/ 4.00			
ALPHAO	DZ	MACH	C	ЭX	DY	BETA	0	PHI	ALPHAH	BETA	CL.	CD	CLH
14.697	1.100	.59941	9.	54250	. 13260	.879		7.50000	5.89750	09300	.63590	. 14200	.07620
14.684	4.360	.68961	9.	32210	. 13590	.878	-	7.50000	5.89530	00170	.65180	. 14230	.05750
14.678	8.649	,60961	9.	02890	. 13720	. <b>97</b> 8	80	7.59000	5.09960	.01030	.66410	.14510	.04770
14.673	16.194	.59931	9.	51060	.15310	.877	10	7.50000	5.87810	.00470	.67970	. 15120	.03700
14.676	31.096	.6005	7.	48510	.17240	.873	30	7.50800	5.86330	.00570	.70300	. 16000	.02670
14.684	46.169	.6008	6.	44080	.16710	.873	50	7.50000	5.85290	.01390	.71160	.16660	.02520
14.686	61.197	.5999	5.	39690	. 18170	.865	70	7.50800	5.84650	.01430	.72160	. 16930	.02140
					00000	000	20	00000	00000	00000	เกกกก	.กกกกก	. 60000

.00000

.000000

.00000

GRADIENT

PAGE 259 TABULATED SOURCE DATA - CA20 DATE OI DEC 75 ( 20 JAN 75 ) (BGN096) ORBITER DATA CA28 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA .000 BETAC = ALPHAC = 8.000 XHRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. 3.000 .000 ELV-09 = ELY-IB = .0000 IN.YO YMRP = 474.8100 IN. LREF = HACH .600 ELEVON -5.000 375.0000 IN.ZO ZMRP = BREF = 936.6800 IN. 7.500 PHI BETAO = .000 .0300 SCALE \* .000 .000 DY ÐΧ GRADIENT INTERVAL = -1.80/ 4.00 3.21 RUN NO. 702/ 0 RN/L = CLH CD CL ALPHAR BETA BETAO PHI DY OX DΖ MACH ALPHAO .04940 .24900 .05840 7.50800 9.69480 -.00030 .33000 .06700 .59930 -.84120 -1.338 10.331 .27690 .05960 .04220 -.00040 9.69390 7,50000 .07150 .33130 -1.25560 .60000 10.340 1.740 .03730 .30760 .06370 -,00010 7.50000 9.68910 .33280 .08170 -1.87590 6.289 .60070 10.363 .03210 .00010 .35200 .07010 9.69730 7,50000 .33230 .09630 .60030 -2.98498 13.806 10.396 .02590 .41470 .08000 .00860 9,69090 .32950 7.50000 .12610 .60060 -4.95180 10.462 28.633 .08580 .01930 .00150 .45410 9,67620 .33000 7.50000 -7.00390 .14140 43.486 .60040 10.485 .08740 .02020 .45770 .00920 9.67300 .14340 .32810 7.50000 -7.50170 .59950 10.489 47.086 .00000 .00000 .00880 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT GRADIENT INTERVAL # -1.00/ 4.00 3,20 RUN NO. 703/ 0 RN/L = CLH SETA CL CD PHI **ALPHAH** BETAO DY HACH ĐΧ ΟZ ALPHA0 .08430 .54160 .11720 9.72400 -.01250 ,66690 7.50000 .11060 -2.17580 .60000 1.005 14.513 .12040 .05050 9.71980 -.00330 .55600 7.50000 .66730 .11270 .59990 -2.58520 4,003 14.522 .05720 .12610 -.00140 .57610 7.50000 9.71600 .12190 .86560 -3.19350 .60090 8,390 14.535 .04870 .61130 .13530 -.00040 7.50000 9.70760 . 86250 .13390 -4.20120 15.842 .59970 14,550 . 15560 .03830 .65610 9.69510 .00020 7.50000 .96430 -6.93850 .15790 .59990 35.410 15,384 .16570 .03270 9.68570 .60140 .68840 .96420 7,50000 .17100 -9.05870 .60030 50.740 15.397 .02620 .17070 .00140 .69690 9.69350 7.50000 .95530 -11.07430 . 19330 .60010 65.244

.00800

.00000

.00080

.00808

.00000

.00000

.00000

.00000

.00000

(BCN087) ( 20 JAN 75 ) CA20 747/1 01 SI DRBITER DATA PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 6.000 BETAC = XMRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. ELV-18 \* \_000 ELV-08 -3.000

YMRP

.60000

GRADIENT

.....

.00000

.60000

LREF = 474.0100 IN.

.0000 IN.YO

.600 ELEVON = 5.000 HACH 375.0000 IN.ZO ZMRP -EREF = 936.E800 IN. 7.500 BETAO = .000 PH1 SCALE = .0300 DX = 10.600 DY .000 GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.27 RUN NO. 693/ 0 CLM CO BETAO PHI ALPHAH BETA CL DY MACH DΧ ALPHAO DZ . 19200 .05060 .04170 9.72550 .00720 .05380 .30970 7.50000 9.42630 10.202 -2.846 .60070 .05320 .02990 .22710 .31500 7.50000 9.72650 .01499 8.96280 .05120 10.212 .552 .60020 .05720 .02640 7.50000 9.72560 .01510 .25840 .05670 .31740 .60020 8.36590 4.877 10.232 .06460 .02450 .31938 9.72898 .00760 .30420 7.50000 7.32440 .07370 10.267 12.472 .69990 .01920 .37900 .07460 9.71640 .02330 5.22440 .09540 .31849 7.50000 27.592 .59930 10.343 7.50000 9.71420 .01650 .42500 .08170 .01730 .11600 .31020 3.14650 10.377 42.546 .60030 .43840 .08400 .01640 .01650 7.50000 9.71250 .12250 .31670 40.934 .60050 2.25910 10.397 .00000 .00000 .08880 .00800 .00000 .00000 .00000 .60000 .00000 .00000 GRADIENT GRADIENT INTERVAL - -1.00/ 4.00 RN/L = 3.26RUN NO. 684/ 0 CO CLH ALPHAH BETA BETAO PHI DY ALPHAO DZ HACH OΧ .00290 .45750 .10720 .08148 9.75080 8.03810 .07550 .87510 7.50000 -1.221 .59970 14.557 9.75280 .00360 .49410 .10900 .05720 .09390 .87580 7.50000 7.63018 1.801 .59969 14.553 .52370 .11420 .05000 7.50000 9.74630 .01280 .08780 .87510 6.393 .59920 7.00370 14.554 .04248 9.74190 .01410 .55850 . 12260 .87480 7.50000 .59980 5.95410 .10359 14.590 13.965 9.73190 .01500 .63260 .13850 .03440 7.50000 3.93720 .13370 .87070 .60049 14.632 28.717 .66970 .14970 .03180 .01620 .14770 .87100 7.50000 9.72470 .59920 1.64650 14.655 45.772 .15159 .03120 .67440 .14670 .86940 7.50800 9.72120 .02410 1.19850 48.457 ,59900 14.654 .15460 .03000 7.50000 9.72150 .01640 .69370 .15680 .06900 .59990 .55350 14.668 53.011

.00000

.00000

.00000

.08080

.08080

.00000



#### TABULATED SOURCE DATA - CA20

PAGE 261 DATE 01 DEC 75 ORBITER DATA (BGN0881 ( 20 JAN 75 ) CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA ALPHAC -4.000 BETAC = .000 2690.0000 SQ.FT. XMRP 1109.8000 IN.XO ELV-18 -.000 ELY-08 = 3.000 474.8100 IN. YMRP .0000 IN.YO ELEVON = 5.000 MACH .600 ZHRP 375.0000 IN.ZO BREF . 936.6800 IN. .000 PHI 7.500 BETAC = . 0300 SCALE -10.000 DX = .000 DY RUN NO. 790/ 0 RN/L = 3.35 GRADIENT INTERVAL = -1.00/ 4.00 DY BETAO PHI ALPHAN BETA CL CD CLH DX **ALPHAO** DZ MACH .07860 .05210 .35260 7.50000 5.84998 .00050 .41270 .60080 .71130 10.12070 10.555 . 254 3,398 .59950 .49520 10.11910 .35390 7.50000 5.84950 -.08880 .42220 .07920 .04480 10.549 10.11940 .35340 7.50000 5.84070 .00080 .43200 .08060 .04020 .60010 .20180 7.733 10.551 .35020 7.50000 5,83350 -.00960 .45380 .08210 .03980 10.556 15.401 .60060 -.31960 10.12750 .09700 .02520 .60090 -1.32890 10.14530 ,33880 7,50000 5.82300 .00410 .47820 30.165 10.557 .01930 -2.38060 10.15660 .33400 7,50000 5,81600 .00450 .49650 .08990 10.572 45.459 .59920 7.50000 5.81730 +.00320 .49890 .09030 .01830 .59990 -2.54180 10.16140 .33220 10.573 47.767 -.00232 .00000 -.00013 -.00232 .00302 -00019 -.00041 -.06973 -.00051 .00041 GRADIENT 3.32 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 793/ 0 RN/L = ALPHAH BETA CL CD CLH ĐΧ DY BETAO PHI **ALPHAO** D2 HACH .15020 .04180 .89850 5.88510 -.00700 .70540 .60080 -.34990 10.14030 7.50000 14.765 1.985 4.790 .59970 -.54980 10.14100 .88850 7.50000 5.86030 -.00760 .69450 .15160 .04620 14.705 -.83550 10.14240 .89720 7.50000 5.85570 -.00950 .69540 .15260 .04210 .59960 14.694 0.916 7.50000 5.84520 -.00660 .70050 .15580 .03690 10.15560 .68140 14.697 16.371 .59920 -1.34730 7.50000 5.02820 -.01420 .71090 .16350 .03120 31.267 .60010 -2.36750 10.18500 .87110 14.692 .02700 7.50000 5.81760 -,01260 .71950 .16780 .59980 -3.41780 10.15690 .66580 14.697 46.547 -.00330 .02370 .59940 -4.42800 10.21690 .65990 7.50000 5.80770 .72440 .17040 14.696 61.277 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000 .08000 .00000

CA20 747/1 01 S1

#### ORBITER DATA

(BGN089) ( 20 JAN 75 )

REFERENCE	DATA

 SREF
 =
 2680.0000 SQ.FT.
 XMRP
 =
 1109.0000 IN.XO

 LREF
 =
 474.8100 IN.
 YMRP
 =
 .0800 IN.YO

 SREF
 =
 936.6800 IN.
 ZMRP
 =
 375.0000 IN.ZO

 SCALE
 =
 .0300

# PARAMETRIC DATA

ALPHAC =	4.800	BETAC		.000
ELV-18 =	.000	ELV-09	=	3.090
ELEVON #	5.000	HACH	-	.600
BETAD -	.080	PHI	•	7.500
DX =	10.000	ĐΥ	•	10.080

RUN NO. 74	18/ 0	RN/L =	3.31	GRADIENT	INTERVAL	-	-1.007	4.00	

ALFHAO	DZ	MACH	ΩX	BY	BETAG	PHI	ALPHAN	BETA	Ci.	CD	CLH
10.378	-1.632	.60020	10.65360	18.09148	.36670	7.50000	5.85880	.00020	.38770	.07280	.04050
10.375	1.664	.60010	10.62569	10.08940	.36940	7.50000	5.89350	.00820	.40128	.07290	.03280
10.357	6.264	.60010	10.30850	10.09400	.37000	7.50000	5.85260	.00070	.41490	.07420	.02890
	13.375	.60060	9.82330	10.10030	.36640	7.50000	5.84730	CD140	.43589	.07730	.02480
10.402 10.423	28.632	.60090	6,77710	10.11670	.35660	7.50800	5.83630	.00390	.46660	.08230	.02070
10.423	43.693	.60030	7.73850	10.12950	.34900	7.50000	5.82970	.01160	.48550	.09610	.01800
	47.364	.68030	7.48270	10.13340	.34760	7.50000	5.83090	.01190	.49070	.08640	.01550
10.431	GRADIENT	.00000	.00080	.00080	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN N	D. 751/D	RN/L =	3.25 GR/	ADIENT INTER	WAL = -1.0	0/ 4.00			

						~	ALPHAH	BETA	CL	සා	CLH
ALPHAO	DZ	HACH	ÐΧ	DY	BETAO	PHI	•				
14.603	240	.53960	9.65580	10.10520	.91100	7.50000	5.88620	.00130	.66850	. 13590	.04510
14.595	2,648	,59970	9.45510	10.10789	.91230	7.50000	5.68670	.00110	.67280	.13580	.03820
	7.191	.59940	9.14070	10.11050	.91150	7.50000	5.89310	00128	.67700	.13840	.03660
14.596				10.12720	.90760	7.50000	5.87400	01480	.69790	. 14320	.02820
14.595	14.612	.59970	9.63500								00000
14.603	29.755	.59940	7.59700	10.15000	.89650	7.50000	5.85730	.00120	.70220	. 15580	.02950
14.611	44.626	59900	6.55800	10.17050	.89130	7.50000	5.84810	00560	.71400	. 16070	.02680
-				10.18640	.69330	7.50080	5.83880	00370	.71850	. 16433	.02360
14.611	59.694	.59990	5.51570	10.16540	.03330						
	CDADICAL	00003	- 06948	aenan	.00045	00000	.08017	08887	.00149	00003	00239

DATE OI DEC 75

TABULATED SOURCE DATA - CARD

PA0E 263

			CAZ	3 747/1	01 S1	c	RØJTER DATA		(BGN09	0) (20 J	U 75 3
	REFEREN	CE DATA							PARAHETRIC	DATA	
SREF = 2	690.0000 SQ	.FT. XHR	· = 1109.0	0000 IN.XO				ALPHAC =	8.000	BETAC =	.058
LREF =	474.8100 IN	. YHR		1000 IN.YO				ELY-18 *	.000	ELV-08 =	3.090
BREF =	936.6800 IN	. ZMRI	• 375.I	1000 IN.ZO				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAG =	.000	PHI =	7.500
								DX ·=	.000	DY =	10.000
		RUN N	), 79 <del>9</del> /0	RN/L .	3,28 GR	ADIENT INTER	RVAL = -1.0	10/ 4.00			
ALPHAO	DZ	HACH	DХ	DY	BETAO	2HI	ALPHAH	BETA	CL.	CB	CLH
10.357	035	.60030	-1.02460	10.11350	.32760	7.50000	9.66040	.0,358	.25050	.05480	.04490
10.375	3.161	.59960	-1.45630	10.10060	.33860	7.50000	9.65910	.00468	.27780	.0582 <b>0</b>	.04120
10.396	7.497	.60020	-2.04560	10.09530	.34380	7.50000	9.65930	.00230	. 30840	.06218	.03620
10.435	14.798	.69070	-3.04220	10.09790	.34630	7.50808	9.65560	.00100	. 34730	.06970	.03590
10.494	29.812	.59910	-5.10530	10.11650	.34030	7.50000	9.64940	.01370	.40930	.07840	.03010
10.518	45.359	.59950	-7.24650	18.13900	.33420	7.50000	9.64690	.00730	.45190	.08420	.02200
10.522	47.338	.60020	-7.51750	10.14290	.33230	7.50000	9.64400	.00760	.45260	.08560	.02380
	GRADIENT	00022	13509	00404	.00339	.00000	00041	00272	.00854	.00106	00116
		RUN N	). 796/ O	RN/L =	3.29 GR/	DIENT INTER	RVAL = -1.0	997 4.00			
ALPHAO	DZ	HACH	DХ	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
14.594	1.481	.59950	-2.22770	10.14370	.87480	7.50000	9.69560	00300	.56400	. 11550	.04760
14.602	4.549	.59900	-2.64420	10.13000	.88110	7.50000	9.69070	00590	.57930	.11950	.04290
14.517	8.557	.59930	-3.20750	10.11860	.88520	7.50000	9.68790	00250	.59120	. 12470	.04340
14.642	16.518	.59980	-4.27940	10.12340	.88400	7.50000	9.67930	.00160	.62060	.13300	.04080
14.671	31.266	.59980	-6.30190	10.14970	.87470	7.50000	9.66690	00270	.65710	.14660	.03960
14.697	46.167	.60010	-8.35180	10.17100	.86860	7.50000	9.65650	00210	.69230	. 15610	.03440
14.698	61.030	.60020	-10.46650	10.19280	.86220	7.50000	9.65050	.00750	.69640	. 16310	05020.
	GRAD1ENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.08080	.00000	.00000

-.26060

.00000

.59920

.00000

10.16340

.00000

.00000

.00000

CA20 747/1 01 51

ORBITER DATA

.00000

.00000

.00000

(BGN091) ( 20 JAN 75 )

PARAMETRIC DATA

 RENC	 
 NE NE	 

58.866

**GRADIENT** 

14.596

	REFERENCE	DATA									
LREF =	690.0000 <b>90.F</b> 474.8100 IN. 936.6800 IN. .0300	T. XHRP YHRP ZMRP	.0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-1B = ELEVON = BETAO = ELX	8.000 .000 5.000 .000	BETAC = ELV-09 = HACH = PHI = DY =	.000 3.000 .600 7.500 10.000
		RUN NO.	749/ 0	RN/L =	3.28 GR	ADIENT INTER	VAL = -1.0	0/ 4.08			
			DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLM
ALFHA0	OZ	MACH		10.09490	.34320	7.50000	9.73370	.00410	.22140	.04820	.02460
10.211	-2.473	.60010	9.37070	10.09320	.35240	7.50000	9.73220	.00470	.24480	.05280	.02+80
10.231	.694	.59940	8.93780	10.02520	.36020	7.50000	9.73090	.00260	.27830	. 05590	.02200
10.254	5.170	. 59950	8.32140	10.07600	.36200	7.50000	9.72830	.00110	.32160	.06230	.02180
10.264	12.734	.59930	7.28840	10.09700	.35550	7.50000	9.72610	,00560	.38690	.07250	.02250
10.350	27.679	.59950	5.20360	10.05700	.35150	7.50000	9.71980	.00560	.43030	.07930	.02010
10.390	42.827	.59970	3.69470	10.11470	.34830	7.50000	9.72100	00690	.44089	.08140	.01930
10.398	47.827	.60050	2.39640	•	.00000	.00800	.00000	3 <b>0000</b>	.00000	.00030	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		RUN NO.	750/ 0	AN/L =	3.26 CR	ADIENT INTER	IVAL = -1.0	10/ 4.80			
				DΥ	CATES	PHI	ALPHAH	DETA	CL.	€0	CLH
ALPHAO	DZ	HACH	DX	10.11789	.89550	7.50000	9.75910	.00240	.51460	.18040	.03450
14.459	-1.845	.59970	8.15128	•	.90290	7.50000	9.75970	.00250	.53650	. 10380	.02920
14.468	1.617	.59960	7.67690	10.10740	.90700	7.50000	9.75520	.01360	.56450	.11010	.02600
14.487	6.351	.60050	7.02750	10.09550	•	7.50000	9.74700	.09160	.59640	.11930	.02730
14.517	13.973	.60060	5.97980	10.09910	.90650	7.50000	9.73940	.00370	.64610	.13478	.02710
14.559	28.740	.60010	3.93560	10.12300	.89680	7.50000	9.73390	00330	.66580		.03140
14.582	41.066	.59970	2.22730	10.13620	.89270		9.72820	00310	.66810		.03140
14.586	42.477	.60050	2.02840	10,13900	.89110	7.50000	9.72500	00120	.69180		.02620
500	EO DEG	50020	- 26060	10.16340	.89240	7.50000	B. 15200	- 100100			00000

.00000

PAGE 265 TABULATED SOURCE DATA - CA20 DATE OF DEC 75 (BCN092) 1 20 JAN 75 1 ORBITER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA 5.000 ALPHAC = 4.000 BETAC . 1109.0000 IN.XO XHRP SREF = 2690.0000 SQ.FT. . ELV-18 = .000 ELV-08 = 3.000 .0000 IN.YO LREF 474.8100 IN. YHRP . HACH .600 ELEVON = 5.000 ZHRP 375,0000 IN.ZO BREF = 936.6800 IN. BETAO -.000 PHI 7.580 SCALE = .0300 DY 10.080 .000 DX RN/L = 3.37 GRADIENT INTERVAL - -1.00/ 4.00 RUN NO. 789/ 0 CD CLH ALPHAH BETA CŁ MACH ĐΧ DY DETAC PHI ALPHAO DZ 5.64990 4.98850 .39940 .07900 .07220 .36690 7.50080 .59980 .72160 8.96510 10.577 ~. 150 .07920 .05850 7.50000 5.84670 4.98640 .41540 8.98960 .36070 10.565 3.389 .60030 .48160 .08070 .04700 7.50000 5.83930 4.98560 .42890 .18390 8.97340 .35770 7.766 .60060 10.554 .03540 .45190 .08260 7.50000 5.83440 4.96720 -.34810 8.97980 .35300 15.573 .59950 10.561 .08678 .02660 .34320 7.50000 5.82300 4.97980 .47720 -1.33700 0.99030 .59900 10.569 30.037 .01900 4.98170 .49770 .09000 7.50000 5.81630 -2.37660 9.00170 .33720 10.574 45.241 .60010 5.81790 4.991BD .50000 .08980 .01840 -2.55580 9.00290 .33650 7.50000 .59970 10.574 47.768 -.00090 -.00059 .08452 .00006 -.00444 -.00172 -.00000 -.08764 .00127 GRADIENT .00014 RN/L = 3.31 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 794/ 0 ALPHAH AT38 CL. ĊŪ CLH MACH OX DY BETAD PHI **ALPHAO** DZ .15130 .07640 7.50000 5.86070 5.80420 .67700 -.37430 9.07530 .89280 .59930 14.741 1.968 .68310 .15020 .06410 5.00880 -.55020 9.07210 .89060 7.50000 5.05950 14.723 4.532 .59990 .05060 5.85570 5.01510 .69200 .15180 -.85330 9.07150 .88960 7.50000 8.966 .60060 14.712 5.84130 5.00370 .70440 .15580 .03860 7.50000 .59970 -1.37350 9.08220 .88460 14.701 16.604 .16360 .03030 5.00290 .71560 7.50000 5.82510 .60060 -2.38170 9.10610 .07490 14.695 31.346 .16770 .02730 .86940 7.50000 5.81480 4.99540 .72100 9.11960 .59970 -3.43760 14.699 46.695 .17110 .02310 5.00490 .72380 7.50000 5.80750 9.13090 .66330 61.405 .60010 -4.45100 14,698 .00000 .00000 .00000 .00000 .60800 .00000 .00000 .00000 .00000 .00000 GRADIENT

14.618

44.674

59.697

GRADIENT

.59940

.59920

.00013

6.55210

5.51130

-.06677

8.23570

8.25220

.00129

.89450

.88490

-.00081

7.50000

7.50000

.00000

			CARO	747/1	OI St	ı	ORBITER DATA	•	19GN09	13) (20 J	AH 75 1
	REFERENC	E DATA							PARAMETRIC	DATA	
SREF = LREF = EREF = SCALE =	2690.0000 SQ. 474.8100 IN. 938.6800 IN. 0300		0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-IB = ELEVON = BETAO = OX =	4.000 .000 5.000 .000	BETAC * ELV-OB * HACH * PHI * DY *	5.000 3.000 .600 7.500 10.000
		RUN NO	. 756/ 0	RN/L =	3.27 GR	ADIENT INTER	1VAL = -1.0	8/ 4.00			
ALPHAO 10.407 10.397 10.396 10.403 10.415 10.423 10.426	DZ -1.572 1.296 5.672 13.650 28.531 43.642 47.246 GRADIENT	HACH .60030 .60000 .60030 .60030 .59970 .60020 .60080	0x 10.83108 10.63690 10.32570 9.79170 8.76850 7.72630 7.47400 .00000	DY 8.07540 8.07760 8.08270 8.08280 8.19590 8.11120 .00000	BETAO .37780 .37490 .37180 .35790 .35840 .35200 .34990 .00000	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 .00000	ALPHAM 5.85840 5.85760 5.85130 5.85130 5.83760 5.83760 5.832890 .00000	BETA 4.98230 4.98050 4.97180 4.97310 4.97310 4.97480 4.97490 .00000	CL .37420 .39180 .41210 .43630 .46800 .49900 .49150	CD .07200 .07220 .07340 .07710 .08240 .08530 .08650 .00000	CLH .06359 .04890 .03720 .02900 .0290 .01720 .01750 .00080
ALPHAO 14.646 14.628 14.615 14.606	DZ 347 2.762 7.144 14.929 29.449	HACH .60040 .60080 .59940 .59920	DX 9.63370 8.42610 9.12810 8.60060 7.60310	DY 8.18350 8.18750 8.18710 8.19200 8.22120	8ETA0 .91470 .91280 .91230 .90970 .90000	PHI 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAN 5.88520 5.87938 5.87670 5.86460 5.85130	BETA 4,98300 4,97890 4,97800 4,97460 4,96530	CL .62450 .64170 .66430 .69040 .71060	CD .13890 .13820 .13930 .14410 .15490	CLH .09120 .06950 .05000 .03260

5.83930

5.83790

-.00190

4.96520

4.97470

+.00132

.71660

.72160

.00553

.16200

.16610

-.00023

.02310

.02250

**-.00690** 

DATE BL DEC 75

TABULATED SOURCE DATA - CA20

(BGN094) 1 20 JAN 75 ) ORBITER DATA CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 5.004 8.000 BETAC = ALPHAC = 1109.0000 IN.XO XHRP SREF # 2690.0000 SQ.FT. 3.000 ELV-08 -ELY-IB = .000 YMRP .0000 IN.YO 474.8100 IN. .600 5.000 HACH ELEVON -375.0000 IN.ZO 7MRP 936.6800 IN. 7.500 BREF = .000 PHI BETAO = SCALE = .0300 DY 10.000 .080 GRADIENT INTERVAL = -1.007 4.00 3.28 800/ 0 RN/L \* RUN NO. CLN ත CL **ALPHAH** BETA PHI BETAO DΥ MACH DX DZ .05938 ALPHAO .05510 .25460 9,65660 4.99450 .34720 7.50000 -1.02330 8.91870 .59930 -.121 .05080 .05860 10.393 .28020 4.99140 9.65730 .34590 7.50000 0.91930 -1.48700 .59930 3.280 .06280 .04500 10.394 .30750 5.00470 7.58000 9.65340 .34470 0.91600 .60060 -2.03708 7.350 .03780 10.408 .06940 .35390 9,65240 4.99410 7.50000 .34670 -3.14280 8.91490 .59950 15.415 .03180 10.448 .41170 .07910 5.00160 9,64660 7.50000 .34150 0.92880 -5.16010 30.092 .60000 .02410 10.505 .08490 .45050 4.98740 9,64150 .33640 7.50000 -7.25270 8.94660 .59990 .02320 45.305 10.523 .08560 4.99510 .45470 9,63940 7,50000 8.94780 .33460 -7.53260 .60070 10.526 47.357 .00103 -.00250 .60753 -.00091 .00021 -.00038 .00800 .00018 -.13632 .00000 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 795/ 0 RN/L = 3.30 CLH CD ALPHAH **BETA** CL BETAO PHI DY ĐX MACH DZ .06960 ALPHA0 .11530 .55100 9.69330 4.97390 .87620 7.50000 9.06050 -2.21010 .59980 14.609 1.223 .11920 .05570 4.98640 .57130 .87780 7.50000 9.68930 -2.62530 9.04320 4,295 .60010 .04600 14.604 .12490 .59488 4.99180 7.50000 9.69390 9.02810 .89110 -3.27870 .60030 9.099 .04250 14.618 .62310 .13240 4.98360 9.67580 7.50000 9.03250 .69090 -4.27940 .59980 16.424 .03870 14.633 .14710 .66070 4.99120 9.66440 .07580 7.50000 9.04260 -6.30030 .60010 31.163 .03310 14,673 .15650 4.97790 .68660 9.65340 7.50000 .870+0 -8.40360 9.06230 .59990 46.448 .02970 14.696 .16360 4.98620 .69930

.86590

.00000

9.08130

.00000

.60050

.00000

61.101

GRADIENT

14,699

-10.43360

.00000

7.50000

.00000

9.64950

.00000

PAGE 267

.00000

.00000

.00000

**ALPHAO** 

14.510

14.504

14.507

14.530

14.567

14.594

14.605

GRADIENT

.00000

.00000

.00000

.00000

RUN NO. 758/ 0 GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.25 ALPHAH DETA CD CLH MACH DΧ DY **BETAO** PHI DZ -1.170 .60020 8.03630 9.17139 .90250 7.50000 9.75370 4.98380 .49190 .10230 .07320 .04600 4.97220 .53370 .10380 7.62130 8.16420 .90580 7.50800 9.75550 1.917 .60050 7.50000 9.75180 4.96980 .56320 .10950 .03520 6.286 .59960 7.02320 0.15540 .90740 8.14470 .90720 7.50000 9.74450 4.98380 .60320 .11940 .02780 .60020 5.98650 13.648 .65540 .13490 .02300 8.15720 .90150 7.50000 9.73420 4.97640 29.243 .60030 3.66020 .89540 9.73000 4.97790 .67820 .14670 .02650 43.647 .60080 1.82560 8.17000 7.50000 4.97150 .69180 .15530 .02710 58.656 .60070 -.24170 8.19240 .88780 7.50000 9.72470

.00000

.00800

-00000

.00000

.00000

DATE OF DEC 75

TABULATED SOURCE DATA - CASB

11.66200

11.67880

.00000

.60020

.59970

.00000

47.052

61.438

GRADIENT

14.774

14.772

-3.50320

-4.49830

.00000

-4.36560

-4.37510

.00000

(BGN096) ( 20 JAN 75 ) ORBITER DATA 747/1 01 51 CYSO PARAMETRIC DATA REFERENCE DATA -5.000 ALPHAC = 4.600 BETAC = XHRP = 1109.0000 IN.XO SREF \* 2690.0000 SQ.FT. 3.000 .000 ELV-OB = ELV-IB . .0000 IN.YO YHRP = 474.8100 IN. .600 ELEVON -5.000 HACH 375.0000 IN.ZO 936.6800 IN. ZMRP = BREF = 7.500 -5.000 PHI BETAO -.0300 SCALE = DY 10.000 .000 DX GRADIENT INTERVAL # -1.00/ 4.00 3.28 RUN NO. 804/ 8 RN/L = CLH BETA CL CD ALPHAH BETAO PHI DX OY MACH ALPHAO DZ .02210 -4.99080 .48590 .08200 -4.90570 7.50000 5.85380 11.60330 .59990 .65310 .639 10.581 .01310 -4.98290 .49690 .0B170 -4.90260 7.50000 5.84720 .45410 11.60440 3.578 .59970 10.577 .08210 00800 .50710 7.50000 5,84590 -4.97530 .60050 .16150 11.61590 -4.90650 7.854 10.576 .00260 .09370 .52460 7.50000 5.83640 -4.98310 11.63520 -4.91210 -.34730 10.583 15.309 .60030 -.00350 -4.97290 .55160 .08790 5.82710 7,58000 11.65910 -4.92520 .60070 -1.4013030.620 10.601 -.00920 .09080 .56910 5.81980 -4.97990 -4.92890 7.50000 -2,42020 11.68410 .60010 45.347 10.617 -.00970 .57060 .09130 5.81890 -4.97190 -4.93060 7.50000 11.69550 -2.59130 10.614 47.836 .59960 .00374 -.00010 -.00306 .00269 .00000 -.00225 .00105 -.06770 .60037 -.00007 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 3.29 RUN NO. 805/ 0 RN/L = CLH BETA CL CD BETAO PHI **ALPHAN** DΥ MACH DX **ALPHAO** ÐΖ .03900 -4.99520 .73930 .16990 5.87880 14.58740 -4.33990 7.50000 1.971 .60070 -.39910 14.802 .02960 .74250 .16860 -4.98020 -4.33680 7.50000 5.87760 11.58650 .60090 -.60690 14.786 4.974 .02330 .16920 .74520 7.50000 5.87070 -4.97870 -4.33820 -.91750 11.59210 .59980 14.775 9.438 .01820 -4.99720 .75180 .16990 5.88150 7.58009 -4.34400 .60050 -1.40759 11.61020 14.774 16.557 .76970 .17480 .00980 -4.98040 5.84370 11.64460 -4.35890 7.50000 -2.45270 14.779 31.753 .60030 .17850 .00320 .78210 5.82950 -4.98910 7.50000

PADE 268

-.00210

.00000

.18010

.00000

,78800

.00000

5.02190

.00000

7.50000

.00000

-4.97970

CA28 747/1 01 SI

ORBITER DATA

(BGN097) ( 20 JAN 75 )

REFERENCE DATA	REF	ERENCE	DATA
----------------	-----	--------	------

#### PARAHETRIC DATA

REPERCE DATA					i adamini dan						
LREF =	.02 0000.028 .01 0018.474 .01 0083.828 .020.	YMRP	<b>.</b>	0000 IN.XO 0000 IN.YO 0000 IN.ZO				ALPHAC = ELV-18 = ELEVON = EETAO = DX =	8.000 .000 5.000 -5.000	BETAC = ELV-0B = HACH = PHI = DY =	-5.000 3.000 .600 7.500
		RUN NO	. 811/ 0	RN/L =	3.26 GRA	DIENT INTER	VAL = -1.0	80/ 4.00			
ALPHAO 10.393 10.413 10.438	02 093 2.882 7.530	HACH .59910 .60020 .59990	0X -1.65190 -1.45190 -2.88240	DY 11.61180 11.68880 11.69720	BETAO -4.92370 -4.91330 -4.98870	PH1 7.50000 7.50000 7.50000	ALPHAH 9.67230 9.67070 9.66620	62TA -4.99240 -4.97430 -4.97440	CL .32540 .35170 .39390	CO .05780 .06050 .05470	CLM .01580 .01250 .00960
10.483 10.527 10.564 10.566	15.189 29.943 45.392 47.556 GRADIENT	.60080 .59980 .60010 .59980	-3.13490 -5.16010 -7.29310 -7.60080 13446	11.63100 11.67380 11.70260 11.70550 00370	-4.91100 -4.92360 -4.92950 -4.93000 .00350	7.58000 7.50000 7.50000 7.50000 ,00000	9.66350 9.65390 9.65000 9.65160 00054	-4.97360 -4.97220 -4.97110 -4.98630 .00272	.4250 .46400 .5220 .52620	.07070 .07940 .08530 .08580	.00710 .00140 00430 00500 00108
	CHADIEN		. 810/ 0	RN/L =		DIENT INTER			.00031	.00031	100100
ALPHA0 14.680 14.694 14.700 14.711 14.732 14.745	DZ .829 3.926 7.951 15.864 30.777 45.232 60.426 GRADIENT	MACH .60040 .59960 .60050 .59950 .59960 .60020 .59990	DX -2.17220 -2.59130 -3.13840 -4.22030 -6.27550 -8.26290 -10.2696013531	0Y 11.59110 11.59530 11.59450 11.60190 11.65440 11.67750 11.69300 .00136	BETA9 -4.34470 -4.33890 -4.33590 -4.33590 -4.35420 -4.36110 -4.37020	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.5000000000	ALPHAH 9.70740 9.69930 9.69450 9.68490 9.67290 9.55090 9.59040	BETA -4.97590 -4.98360 -4.98390 -4.97770 -4.97590 -4.98040 -4.96340 00249	CL .60870 .62560 .64340 .67360 .70870 .73930 .75690	CD .12830 .13190 .13600 .14480 .15890 .16690 .17190	CLH .04680 .04080 .03630 .03000 .02030 .01170 .08380 00194

\_\_\_

DATE 01 DEC 75

#### TABULATED SOURCE DATA - CA20

PAGE 27. CA20 747/1 01 St ORBITER DATA (BCN098) 1 20 JAN 75 1 REFERENCE DATA PARAMETRIC DATA 2690.0000 SQ.FT. XMRP 1109.0000 IN,XQ ALPHAC = 4.000 BETAC = .000 LREF = 474.0100 IN. YHRP .0000 IN.YO ELY-18 = .000 ELV-CB -3.000 BREF = 936.6800 IN. ZMRP 375.0000 IN.20 ELEVON = 5.000 HACH .600 SCALE -.0300 BETAO . -5.000 PHI 7.500 DX .000 DY 10.000 RUN NO. 803/ 0 GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.29 ALPHAO DΖ MACH ĐΧ DY BETAO PHI **ALPHAH** BETA a CD CLH 10.589 .754 .59940 .66640 10.56960 -4.90970 7.50000 5.84440 -.00200 .49380 .07850 .02190 10.591 3.692 .59900 .46860 10.56500 -4.90860 7.50000 5.84070 .00000 .50220 .07870 .01450 10.585 7.812 .60050 .18690 10.57170 -4,91050 7.50000 5.83450 .00539 .51250 .08040 .00860 10.597 15.159 .60020 -.31050 10.58790 -4.91080 7.50000 5.82350 .00350 .52770 .08240 .00320 10.599 28.483 .60030 -1.22300 10.59810 -4.92080 7.50000 5.81450 -.00380 .55110 .08720 -.00270 10.609 45.607 .60050 -2.39680 10.61570 -4.92840 7.50000 5.80530 .00550 .56990 .09120 -.00990 10.609 47.846 .60020 -2.55520 10.51480 -4.92850 7.50000 5.80650 .00660 .57250 .09140 -.00970 GRADIENT -.00014 -.05755 -.00123 .00038 .00000 -.00126 .00068 .00287 .00007 -.00253 RUN NO. 806/ 0 GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.28 **ALPHAO** DZ MACH DХ DY BETAO PHI **ALPHAH** BETA ÇO CŁ CLH 14.807 2.070 .60080 -.39660 10.63100 -4.34420 7.50000 5.88990 .00930 .75220 .16680 .03710 14.795 5.158 .60030 -.60460 10.62780 -4.34220 7.50000 5.88820 .01000 .75100 .16580 .03020 14.785 9.244 .59960 -.88860 10.62780 ~4.34200 7.50000 5.88130 .00310 .75270 .16640 .02430 14.782 17.214 .60030 -1.43520 10.62940 -4.34560 7.50000 5.86420 .01620 .75930 .16970 .01770 14.782 31.661 .59940 -2.42690 10.65410 -4.35590 7.50000 5.84360 .01300 .77300 .17500 .00900 14.778 47.097 .60050 -3.49310 10.65870 -4.36210 7.50000 5.83380 .01169 .78420 .17890 .00290 14.777 61.842 .60050 -4.52010 10.68370 -4.37040 7.50000 5.83040 .02120 .78960 .18090 -.00270 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

			CA28	747/1	01 SI	C	DABITER DATA		(BGN09	) ( 20 J	W 75 1
	REFERE	NCE DATA							PARAMETRIC	DATA	
SREF =   LREF =   BREF =   SCALE =	2690.0000 \$ 474.8100   936.6800 ! .0300	N. YHRP	.00	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = ELV-18 = ELEVON = EETAO = DX =	8.000 .000 5.000 -5.000	BETAC = ELV-08 = HACH = PHI = DY =	.000 3.000 .600 7.508 10.000
		RUN NO	. 812/ 0	RN/L =	3.26 GR	ADIENT INTER	RVAL = -1.0	0/ 4.00			
ALPHAO 10.406 10.423 10.446 10.488 10.541 10.563 10.567	02 598 3.005 7.573 15.463 30.173 44.995 47.483 GRADIENT	MACH .60000 .60030 .60010 .50050 .59930 .59930 .60010 .00008	-1.45270 -2.07700 -3.15600 -5.19260 -7.22310 -7.43590 13458	OY 0.55570 0.54650 0.53970 0.53970 0.56410 0.59760 0.59970 00283	9ETAO -4.93340 -4.92570 -4.91900 -4.91500 -4.91980 -4.92660 -4.92750 .00214	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 .00000	ALPHAH 9.67260 9.66800 9.66800 9.65470 9.64680 9.54790 00128	BETA 00310 00510 00950 00260 .00010 .00120 00120 00120	CL .32760 .35800 .39720 .42890 .48420 .52130 .62750	CD .05430 .05900 .06340 .06970 .07860 .09460 .08550 .00130	CLM .02200 .01470 .01130 .00800 .00240 00370 00490 00203
ALPHAO 14.690 14.694 14.701 14.719 14.734 14.751 14.752	DZ .680 3.893 9.089 15.576 30.598 45.433 60.072 GRADIENT	MACH .60010 .59920 .59980 .60050 .59970 .60000 .59990	-2.61840 :: -3.19440 :: -4.22500 :: -6.31890 :: -8.38220 ::	DY 0.62000 0.61290 0.60340 0.63630 0.63630 0.65290 0.66490	BETAO -4:36030 -4:35390 -4:34950 -4:35490 -4:35490 -4:36690 .00213	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAM 9.78690 9.78590 9.77699 9.76790 9.75500 9.74330 9.73740 00043	6ETA .00160 00800 .00430 00550 00450 00100 00320	CL .60770 .62560 .64510 .67590 .70950 .74030 .75900	CD .12520 .12930 .13480 .19370 .15820 .16650 .17160	CLM .05210 .04370 .03800 .03080 .02080 .01280 .00450 00280

ORIGINAL PAGE IS OF POOR QUALITY

DATE 01 DEC 75

GRADIENT

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00000

TABULATEG SOURCE DATA + CA28

PAGE 273

			CA20	747/1	01 51	C	ORBITER DATA		(BONT)	103 1 CO	AN 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 8	2690.000 <b>0 SQ.</b> F	TT, XMRP	<b>=</b> 1109.00	00 IN.XO				ALPHAC =	4.000	BETAC =	5.000
LREF =	474.8100 IN.	YMRP	= .00	00 IN.YO				ELV-IB =	.000	ELV-08 =	3.000
BREF =	936.6800 IN.	ZHRP	* 375.00	00 IN.ZO				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							= OAT38	-5.000	PHI =	7.500
								DX -	.000	DY =	10.009
		RUN NO.	605/ 0	RN/L =	3.31 GR	ADIENT INTER	RVAL = -1.0	0/ 4.00		•	
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD CD	CLH
10.632	.542	.60000	.66220	9.42040	-4.69370	7.50000	5.84060	4.96470	.47190	.07670	.05760
10.612	3.385	.60040	.47030	9.42520	-4.89960	7.50000	5.83720	4.97190	.48770	.07730	.03800
10.597	7.664	.60000	. 16040	9.43110	-4.90530	7.50000	5.83210	4.98920	.50640	.08030	.01930
10.597	15.623	.60080	35820	9.44230	-4.91010	7.50000	5.82130	4.96770	.52880	.08420	.00700
10.604	30.599	.59980	-1.39180	9.45100	-4.91870	7.50000	5.81048	4.98430	.55310	.02910	00190
10.607	45.321	.60010	-2.38970	9.46750	-4.92620	7.50000	5.80330	4.97660	.56940	.09130	00790
10.608	47.816	.59960	-2.56310	9.47050	-4.92700	7.50000	5.80230	4.98460	.57070	.09210	00880
	GRADIENT	-00014	06749	.00169	00207	00000	00120	.00253	.00558	.00021	00589
		RUN NO.	807/ 0	RN/L =	3.28 GR	ADIENT INTER	RVAL = -1.0	0/ 4.00			
AL.PHAO	DŽ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
14.862	2.028	.59920	39040	9.55980	-4.33510	7.50000	5.85930	4.97110	.73660	.16510	.07550
14.831	4.948	.60030	58900	9.55940	-4.33560	7.58000	5.85320	4.97710	.74280	. 16390	.05540
14.807	9.169	.60040	87690	9.56420	-4.33950	7.50000	5.84700	4.98400	.75160	.16620	.03760
14.793	16.781	.59910	-1.40070	9.56640	-4.34260	7.50000	5.93710	4.98590	.76120	.17000	.02280
14.783	31.685	.59990	-2.41640	9.57980	-4.35320	7.50000	5.01770	4.99680	.77540	. 17540	.01120
14.782	46.880	.69030	-3.45430	9.59590	-4.35850	7.50000	5.60880	4.98200	.78510	.17910	.00340
14.777	61.889	.60060	-4.49120	9.60740	-4.36720	7.50000	5.80130	4.99120	.79000	.18090	00280

14.761

14.756

46.564

61.712

GRADIENT

.60030

.00000

-0.45280

.00000

.60010 -10.55320

9.53750

9.56010

.00000

-4.35700

-4.36580

.00000

7.50000

7.50000

.00000

9.67169

9.66500

.00000

4.99740

4.92810

.00000

.74870

.76280

.00000

.16720

.17330

.00000

.01190

.00390

PAGE 275 TABULATED SOURCE DATA - CA20 DATE OI DEC 75 (BGN102) ( 20 JAN 75 ) ORBITER DATA CA28 747/1 01 St PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = -5.000 SREF = 2690.0000 SQ.FT. AH IX = 1109.0000 IN.XO ELV-IB + .000 ELV-08 = 3.000 474.8100 IN. YHRP .0000 IN.YO LREF = 375.0000 IN.ZO HACH .600 ELEVON = 5.000 936.6800 IN. ZHRP BREF = -5.000 PHI 7.580 BETAO = SCALE = .0300 .000 DY 10.000 ĐΧ RUN NO. 815/ 0 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00 CD CLK BETAO PHI ALPHAH BETA CL ALPHAO DZ MACH DX DY .03770 -.39550 11.56920 -4.33750 7.50000 5.87520 -4.98760 .74080 .16940 .60070 14.790 1.983 -4.33630 7.50000 5.87430 -4.98050 .74320 .16850 .02920 -.59210 11.57770 4.001 .60000 14.773 5.86980 -4.96350 .75060 . 16670 .02430 9.259 .59970 -.09880 11.57700 -4.33780 7.50000 14.771 .75880 .16840 .01870 -1.42840 11.59840 -4.34500 7.50000 5.86010 -4.97930 .60030 14.770 16.962 -4.35920 7.50000 5.84300 -4.97290 .77630 .17310 .01070 -2.43150 11.62830 14.773 31.562 .60000 11.64528 -4.36560 7.50000 5.82880 -4.97390 .78700 .17630 .00400 14.769 46.760 .60020 -3.47550 -.00180 -4.97220 .17870 61.866 .60010 -4.51840 11.66000 -4.37310 7.50000 5.82840 .79400 14.768 .00000 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 CA20 747/1 01 51 ORBITER DATA (BGN103) 1 20 JAN 75 3 PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = .000 SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO ELV-18 = .000 ELY-08 = 3.000 LREF = 474.8109 IN. YHRP .0000 IN.YO 375.0000 IN.ZO ELEVON = 5,000 MACH .600 erer + ZMRP 936.6800 IN. -5.000 PHI 7.500 BETAO = SCALE -.0300 10.000 DX .000 DY GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 814/ 0 RN/L = 3.24 CLH **BETAO** PHI **ALPHAH** BETA CL CD DY **ALPHAO** DZ HACH DX 5.00550 -.01290 .03610 .60000 -.39170 10.63030 -4.34420 7.50000 .75120 . 16650 14.793 2.161 .16570 .02920 -4.34280 7.50000 5.87880 -.01210 .75110 5.231 .59970 -.60470 10.62790 14,782 -.02000 .16640 .02380 -. 87590 10.62870 -4.34290 7.50000 5.87490 .75250 14.771 9,123 .59920 -.01430 10.62590 -4.34500 7,50000 5.86050 .75880 .16900 .01740 16.756 .59950 -1.40020 14.766 -.02550 .77390 .17490 .00950 .60020 -2.41880 10.65530 -4.35690 7.50000 5,83930 14,769 31.625 -4.36120 7.50000 5.82970 -.019t0 .78390 .17760 .00270 14.767 45.769 .60020 -3.46380 10.66050 10.67110 -4.36830 7.50000 5.82390 -.00940 .78950 .17950 -.00320 .59960 -4.49070 14.766 61.571

.00000

GRADIENT

.00800

.00000

.00000

.00000

.00000

.00000

.00000

.00000

( 20 JAN 75 ) (#011/04) CA20 747/1 01 51 ORBITER DATA

	REFERENC	E DATA							PARAMETRIC	DATA	
SREF - 8	880.0800 <b>5</b> 0.	FT. XHRP	= 1169.0	OX.NI 000				ALPHAC =	4.080	BETAC =	-5.000
	474.8100 IN.	YHRP		000 IN.YO				ELV-18 =	.080	ELV-OB *	3.000
	936.6800 IN.	ZMRP		000 IN.ZO				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAO .	-5.000	PHI =	.000
JUALE -	.0350			•				0X •	10.000	DY -	.080
		RUN NO	. 830/ 0	RN/L =	3.29 GF	RADIENT INTER	VAL = -1.0	00/ 4.00			
ALPHAO	DZ	MACH	ĎΧ	DY	BETAD	PH!	ALPHAN	BETA	CL.	CD	CLH
10.325	-1.343	.60050	10.81020	2.27280	-5.21650	.00000	5.82520	-4.95370	.35140	.06170	.05120
10.312	1.825	.60080	10.60190	2.28000	-5.21910	.00000	5.82640	-4. <del>9</del> 4680	.39040	.05350	.02090
10.306	5.300	.60070	10.30090	2.29610	-5.22500	.00000	5.82270	-4.54040	.41810	.06570	.00300
1313	13.860	.60000	9.78720	2.31560	-5.23200	.00000	5.81650	-4.94080	.44500	.06930	00630
331	28.680	.60030	8.77630	2.34420	-5.24080	.00000	5.80760	-4.95590	.47970	.07520	01310
10.341	43.681	.60040	7.73970	2.34160	-5.24020	.00000	5.79900	-4.93970	.50080	.07910	01670
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO	. 835/ 0	RN/L =	3.27 G	RADIENT INTER	VAL = -1.	09/ 4.88			
ALPHAO	DZ	HACH	DХ	DY	BETAO	PH1	ALPHAH	BETA	CL.	CO	CLM
14.692	1.273	.60840	9.46210	2.19680	-5.18558	.00000	5.85310	-4.95420	.63630	.13170	.06510
14.669	4.371	.60000	9.25780	2.20440	-5.19130	.00800	5.84860	-4.94840	.68030	.13390	.03820
14.657	8.918	.60010	8.95000	2.21850	-5.19620	.00000	5.84580	-4.94910	.67900	.13780	.05100
14.654	16.303	.59960	8.44290	2.24340	-5.20370	.80980	5.63620	-4.94140	.69000	. 14440	.01190
14.657	31.560	.59910	7.39910	2.26540	-5.21060	.00000	5.82260	-4.94510	.71090	. 15350	.00270
14.663	46.389	.59940	6.3B570	2.27270	-5.21250	.08000	5.81290	-4.94850	.72860	.15880	~.00320
14.672	61.453	.59910	5.36270	2.25720	-5.21370	.00000	5.88460	-4.94790	.75000	.15940	08650
, 1.07		. = 30.0				00000	00000	90909	กกรถก	.00000	. 20000

.00000

.00000

.00800

.00000

.00000

.00000

.88900

**GRADIENT** 

.00000

.00000

.00000

TABULATED SOURCE DATA - CA20 DATE OF DEC 75

ORBITER DATA

(BGN105) ( 20 JAN 75 1

PAGE 277

10.469 41.992 .60070 3.20170 2.39690 -5.24089 .80000 9.63680 41.53700 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000				CVSD	747/1	01 S1	OF	SELLEH DYLY	•	(BORLIE	2,	
SREF = 2690.0000 S0.FT. XHRP = 1109.0000 IN.XO  LREF = 474.0100 IN. YHRP = .0000 IN.YO  BREF = 935.6800 IN. ZHRP = 375.0000 IN.ZO  RUN NO. 641/ 0 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.CO  ALPHAO DZ MACH DX DY BETAO PHI ALPHAH BETA CL CO CLH 10.326 -3.049 .60000 9.37130 2.28520 -5.1950 .00000 9.65150 -5.00360 .25120 .04590 .02500 10.307020 .60070 8.97290 2.29580 -5.19890 .00000 9.65150 -5.00360 .25120 .04590 .00260 10.328 4.578 .59940 8.34450 2.32580 -5.21110 .00000 9.65270 -5.00370 .29140 .0502000500 10.359 12.050 .59330 7.32550 2.35920 -5.2350 .00000 9.65270 -5.00360 .25120 .04590 .05550 -00050 10.437 27.169 .59920 5.23740 2.39590 -5.2350 .06000 9.63680 -4.99400 .40850 .06730 -01160 10.437 27.169 .59920 5.23740 2.39590 -5.24060 .00000 9.63680 -4.99400 .40850 .06730 -01160 10.459 41.992 .60070 3.20170 2.39690 -5.24060 .00000 9.63680 -4.99400 .40850 .0744001370 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000			D. T.							PARAMETRIC	DATA	
SREF = 2690.0000 SQ.FT, XHRP = 1109.0000 IN.XO  LREF = 474.8100 IN. YHRP = .0000 IN.YO  BREF = 936.6800 IN. ZHRP = 375.0000 IN.ZO  RUN NO. 6417 0 RN/L = 3.26 GRADIENT INTERVAL = -1.007 4.00  ALPHAO DZ MACH DX DY BETAO PHI ALPHAH BETA CL CD CLH  10.296 -3.049 .60000 9.37130 2.28520 -5.19050 .00000 9.65170 -5.00970 .19470 .03820 .02390  10.307020 .60070 6.97290 2.29580 -5.19110 .00000 9.65270 -5.00320 .29140 .0502000600  10.328 4.578 .59940 8.34450 2.32580 -5.21110 .00000 9.65270 -5.00320 .29140 .0502000600  10.359 12.050 .59930 7.32250 2.35920 -5.22350 .00000 9.6520 -5.01160 .33750 .0565000950  10.437 27.169 .59920 5.23740 2.39020 -5.23710 .00000 9.65880 -4.99400 .40650 .0673001160  GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .		REFERENCE	DAIA								DC740 -	-# 000
LREF = 474.8100 IN.	coce = 20	egn anno SQ.F)	T. XMRP	# 1109.00	OX.NI 00							
BREF = 936.6800 IN. ZHRP = 375.0000 IN.ZO  SCALE = .0300  RUN NO. 841/ 0 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ MACH DX DY BETAO PHI ALPHAH BETA CL CD CLH 10.296 -3.049 .60000 9.37130 2.28520 -5.19050 .00000 9.85170 -5.08970 .19470 .03820 .02390 10.307020 .60070 8.97290 2.29580 -5.19890 .00000 9.85150 -5.00360 .25120 .04590 .00260 10.308 4.578 .59940 8.34450 2.32580 -5.21110 .00000 9.65270 -5.00320 .29140 .0502008600 10.359 12.050 .59930 7.32250 2.35920 -5.22350 .00000 9.65220 -5.01160 .33750 .0565000650 10.437 27.169 .59920 5.23740 2.39020 -5.23710 .00000 9.63680 -4.89400 .40850 .06730 -01160 10.469 41.992 .60070 3.20170 2.39690 -5.24660 .00000 9.63680 -4.89400 .45240 .07440 -01370 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	<b></b>			00	07.NI 08							
SCALE = .0300  RUN NO. 641/ 0 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ MACH DX DY BETAO PHI ALPHAH BETA CL CD CLH 10.296 -3.049 .60000 9.37130 2.28520 -5.19050 .00000 9.65170 -5.00970 .19470 .03820 .02390 10.307020 .60070 6.97290 2.29580 -5.19090 .00000 9.65150 -5.00360 .25120 .04590 .00260 10.328 4.578 .59940 8.34450 2.32580 -5.21110 .00000 9.65270 -5.00320 .29140 .0502000600 10.359 12.050 .59930 7.32250 2.35920 -5.22350 .00000 9.65220 -5.01160 .33750 .0565000950 10.437 27.169 .59920 5.23740 2.39020 -5.23750 .00000 9.65280 -5.00940 .40850 .0673001160 10.437 27.169 .59920 5.23740 2.39020 -5.23710 .00000 9.63280 -4.99400 .40850 .0673001160 10.469 41.992 .60070 3.20170 2.39690 -5.24680 .00000 9.63280 -4.99400 .45240 .0744001370 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000				= 375.00	80 IN.20							
ALPHAO DZ MACH DX DY BETAO PHI ALPHAH BETA CL CO CLH 10.296 -3.049 .60000 9.37130 2.28520 -5.19050 .00000 9.65170 -5.00970 .19470 .03820 .02390 10.307020 .60070 6.97290 2.29580 -5.19890 .00000 9.65150 -5.00360 .25120 .04590 .00260 10.328 4.578 .59940 8.34450 2.32580 -5.21110 .00000 9.65270 -5.00320 .29140 .05020 -0.0600 10.359 12.050 .59930 7.32250 2.35920 -5.22350 .00000 9.65220 -5.01160 .33750 .0565060950 10.437 27.169 .59920 5.23740 2.39020 -5.23710 .00000 9.65200 -5.00940 .40850 .0673001160 10.469 41.992 .60070 3.20170 2.39690 -5.24660 .00000 9.63680 -4.99400 .45240 .0744001370 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000			-									
ALPHAO DZ MACH DX DY BETAO PHI ALPHAH BETA CL CD CLH 10.296 -3.049 .60000 9.37130 2.28520 -5.19050 .00000 9.65170 -5.00970 .19470 .03820 .02390 10.307020 .60070 6.97290 2.29580 -5.19090 .00000 9.65150 -5.00360 .25120 .04590 .00260 10.328 4.578 .59940 8.34450 2.32580 -5.21110 .00000 9.65270 -5.00320 .29140 .0502000600 10.359 12.650 .59930 7.32250 2.35920 -5.22350 .00000 9.65270 -5.01160 .33750 .0565000950 10.437 27.169 .59920 5.23740 2.39020 -5.23710 .00000 9.63590 -5.00940 .40850 .0673001160 10.437 27.169 .59920 5.23740 2.39020 -5.23710 .00000 9.63680 -4.89400 .46850 .0673001160 10.469 41.992 .60070 3.20170 2.39680 -5.24060 .00000 9.63680 -4.89400 .45240 .0744001370 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	SCALE -	. 5355							DX =	10.000	DY =	.000
ALPHAO DZ MACH DX DY BETAO PHI ALPHAN BETA CL CD CLH  ALPHAO DZ MACH DX DY BETAO PHI ALPHAN BETA CL CD CLH  ALPHAO DZ MACH DX DY BETAO PHI ALPHAN BETA CL CD CLH  ALPHAO DZ MACH DX DY BETAO PHI ALPHAN BETA CL CD CLH  ALPHAO DZ MACH DX DY BETAO PHI ALPHAN BETA CL CD CLH			RUN NO.	841/ 0	RN/L =	3.26 GR	ADIENT INTER	VAL = -1.0	10/ 4.00			
ALPHAO DZ MACH DX DY SETAO PHI ALPHAN BETA CL CD CLH ALPHAO DZ MACH DX DY SETAO PHI ALPHAN BETA CL CD CLH ALPHAO DZ MACH DX DY SETAO PHI ALPHAN BETA CL CD CLH ALPHAO DZ MACH DX DY SETAO PHI ALPHAN BETA CL CD CLH 10.296 -3.049 .60000 9.37130 2.28580 -5.19890 .00000 9.65150 -5.00360 .25120 .04590 .00260 .00260 .00260 .00260 .00260 .25120 .04590 .00260 .00260 .00260 .00260 .00260 .25120 .04590 .05020 .29140 .05020 .00260 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .29140 .05020 .00260 .00260 9.65270 -5.00320 .00260 .00260 .00260 .00260 .00260 .00260 9.65270 -5.00320 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .00260 .					<b>5</b> W	DETIO	PH1	AL PHAN	BETA	CL	CD	CLH
10.296 -3.049 .60000 9.37130 2.29580 -5.19890 .00000 9.65150 -5.00360 .25120 .04590 .00260 10.307020 .60070 8.34450 2.32580 -5.21110 .00000 9.65270 -5.00320 .29140 .0502000600 10.328 4.578 .59940 8.34450 2.32580 -5.21110 .00000 9.65270 -5.00320 .29140 .0502000500 10.359 12.050 .59930 7.32250 2.35920 -5.22350 .00000 9.65220 -5.01160 .33750 .0565000950 10.437 27.169 .59920 5.23740 2.39020 -5.23710 .00000 9.64590 -5.00940 .40850 .0673001160 10.437 27.169 .59920 5.23740 2.39020 -5.24060 .00000 9.63680 -4.89400 .45240 .0744001370 10.469 41.992 .60070 3.20170 2.39690 -5.24060 .00000 9.63680 -4.89400 .45240 .0744001370 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00	ALPHA0	DZ		-						. 19470	.03820	.02390
10.307020 .60070 6.97290 2.29380 -5.21110 .00000 9.65270 -5.00320 .29140 .0502000500 10.328 4.578 .59940 8.34450 2.32580 -5.21110 .00000 9.65270 -5.01160 .33750 .0565060950 10.359 12.650 .59930 7.32250 2.35920 -5.22350 .00000 9.65220 -5.01160 .33750 .0565060950 10.437 27.169 .59920 5.23740 2.39020 -5.23710 .00000 9.64590 -5.00940 .40850 .0673001160 10.469 41.992 .60070 3.20170 2.39690 -5.24660 .00000 9.63680 -4.89400 .45240 .0744001370 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000  RUN NO. 836/ 0 RN/L = 3.31 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAD DZ MACH DX DY BETAD PHI ALPHAH BETA CL CD CLH	10.296	-3.049							-5.00360	.25120	.04590	.00260
10.328	10.307	020								.29140	.05020	00600
10.359 12.650 .5930 7.32250 2.33250 -5.23710 .00000 9.64590 -5.00940 .40850 .0673001160 10.437 27.169 .59920 5.23740 2.39020 -5.23710 .00000 9.63680 -4.89400 .45240 .0744001370 10.469 41.992 .60070 3.20170 2.39690 -5.24660 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000  RUN NO. 836/ 0 RN/L = 3.31 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAD DZ MACH DX DY BETAD PHI ALPHAH BETA CL CD CLH	10.328									.33750	.05650	60950
10.437 27.169 .59920 5.23740 2.39020 5.24650 .00000 9.63660 -4.89400 .45240 .0744001370 10.469 41.982 .60070 3.20170 2.39690 -5.24660 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .0000	10.359	12.650								,40850	.06730	01160
10.469 41.992 .60070 3.20170 2.39000 3.0000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	10.437	27.169								.45240	.07440	01370
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	10.469	41.992								.00000	.00900	.00000
ALPHAD DZ MACH DX DY BETAD PHI ALPHAN BETA CL CD CLH ALPHAD DZ MACH DX DY BETAD PHI ALPHAN BETA CL CD CLH		GRADIENT	.00000	.00800	.00000	.00000	.00000					
ALPHAD DZ MACH DX DY BETAD HIL ALPHA DATAS CORP. 08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08920 .08			RUN NO.	836/ 0	RN/L =	3.31 GF	RADIENT INTER	RYAL = -1.0	00/ 4.00			
ALPHAO DZ HACH DA 5. 15570 0000 9.59170 4.5450 4.6460 .05340				nv.	nv	PETAD	PHI	ALPHAH	BETA	CL	CD	
				7.91490	2.17100		.00000	9.69170	-4.94920	.46480		
14.545789 .6060 7.517420 .6000 9.68270 -4.94640 .51220 .10420 .03270			• ···					9.68270	-4.94640	.51220	.10420	.03270
14.635 2.486 .6000 9.67370 -4.9469 .54550 .10960 .54550 .10960 .54550 .10960 .54550 .10960 .54550 .10960 .54550								9.67370	-4.94690	.54550		.02270
14.550 7.114 .60040 6.60450 -8.19520 .00000 9.66760 -4.94090 .59760 .11830 .01580								9.86760	-4.94090	.59720	.11830	.01580
14.571 14.418 .60010 3.6715 1.3260 .0000 9.66010 -4.94920 .64790 .13260 .00870					-			9.66010	-4.94920	.64790		.00870
14.610 29.342 59.500 1.4320 .0000 9.65230 -4.94820 .69760 .14320 .0000 9.65230 -4.94820 .69760 .14320 .0000		_		_			-	9.65230	-4.94820	.69750		.00250
14.638 44.463 .60030 1.73160 2.8950 -0.3150 .14920 -0.9203				•				9.64650	-4.94020	.71050		00200
14.650 59.174 .6001027950 2.28950 -5.21320 .0000 5.01355 .01008 .01464 .0025000961	14.650					=		.00031	.00088	.01484	.00250	00951

-.13280

+.00013

GRADIENT

DATE Q1 D	EC 75	TABUL	ATED SOURCE	BATA - C	20					PAC	€ 538
			CAZO	747/1	OL SI	c	RBITER DATA	A.	(BGN) C	eı (50 m	H 75 1
	REFERENC	E DATA							PARAHETRIC	DATA	
SREF = 1	2690.0000 50.	FT. XMRP	<b>=</b> 1109.6	0X.NI 800				ALPHAC =	4.000	BETAC =	-5.000
LREF =	474.8100 IN.			009 IN.YO				ELV-IB =	.000	ELV-08 =	3.000
BREF =	936.6800 IN.			000 IN.ZO				ELEVON =	5.000	HACH =	.600
SCALE =	.0380							BETAO =	-5.000	PHI =	-000
								DX =	.000	DY =	10.000
		RUN NO	. 844/0	RN/L =	3.30 GRA	DIENT INTER	IVAL1.0	30/ 4.08			
ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
10.440	786	.59920	.77820	11.46600	-5.24580	.00000	5.84320	-4.97280	.41880	-07140	.0390
10.421	2.265	.59970	.58010	11.45390	-5.23960	.00000	5.84170	-4.96410	.44840	.07410	.0125
10.417	6.604	.59950	.28450	11.45320	-5.23900	.00000	5.83810	-4.95640	.46060	.07440	.0840
10.423	14.060	.69930	22360	11.46500	-5.24390	.00800	5.82880	-4.96580	.47770	.07610	80150
10.442	29.281	.60090	-1.26380	11.49370	-5.25780	.00000	5.82110	-4.99170	.50350	.08000	00690
10.451	44.256	.59990	-2.29630	11.50700	-5.26440	.00000	5.81170	-4.98130	.52170	.08310	01150
	GRADIENT	.00016	06534	00399	.00284	.00000	00649	.00297	.00976	.00089	00900
			CY50	747/1	<b>0</b> 1 S1	c	RBITER DATA	١	(BGN10	7) (20 3/	ม 75 1
	REFERENC	E DATA							PARAHETRIC	DATA	
SREF = 8	2690.0000 SQ.	FT. XMRP	<b>=</b> 1109.0	000 IN.XO				ALPHAC =	4.000	BETAC =	-5,000
REF =	474.8100 IN.	YMRP		000 IN.YO				ELV-IB =	.000	ELY-08 =	3.000
BREE =	936.6800 IN.	ZHRP		000 IN.ZO				ELEVON =	5.000	HACH +	.600

SREF	-	2690.0000	SQ.FT.	XIME		1109.0000	1N.X0	ALPHAC	:	•	4.000	BETAC	=	-5.000
LREF	-	474.8100	IN.	YMRP	•	.6000	IN.YO	ELV-18	3	-	.000	EL,V-08	*	3.000
BREF	-	936.6900	IN.	ZHRP	-	375.0000	IN.ZO	ELEVON	1	•	5.000	HACH	*	.600
SCALE	-	.0300						OAT38		=	-5.600	PHI		.000
								ОX	٠	*	10.000	ΩY	•	10.000

RUN NO. 819/ 0 RN/L \* 3.26 GRADIENT INTERVAL \* +1.00/ 4.00

ALPHAO	DZ	HACH	DX	ĐΥ	BETAO	PH)	ALPHAH	BETA	CL	co	CLH
10.347	-1.294	.60000	10.79930	12.27000	-5.22040	.00000	5.82480	-4.94250	.38030	.06750	.03408
10.332	1.624	.59960	10.60860	12.25380	-5.21300	.00000	5.82770	-4.94090	.41290	.06980	.00860
10.329	6.160	.59990	10.30320	12.25660	-5.21390	.00000	5.82490	-4.94060	.43280	.07030	00220
10.340	13.665	.59960	9.79210	12.26900	-5.21790	.00000	5.81970	-4.94960	.45440	.07220	00660
10.361	28.60 <del>9</del>	.60000	8,77050	12.29260	-5.22970	,00000	5.81120	-4.95700	.48580	.07560	00990
10.373	43.844	.59970	7.72830	12.30200	-5.23610	.00000	5.80290	-4.94920	.50730	.08010	01340
	GRADIENT	กกกกก	เกลกกล	. 00000	. enenn	. anana	. 200003	.enona	enenn	ROODO	กรกกล

ORIGINAL PAGE IS
OF POOR QUALITY

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

PAGE E78

REF = 474,8100 IN. YMPP = .0000 IN.70  REF = 936.8800 IN. ZMPP = 375.0000 IN.20  RUN NO. 820/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ MACH DX DY BETAO PHI ALPHAN BETA CL CO CH 14.5650 .5.136 .59950 9.20660 12.15960 -5.16830 .00000 5.84790 -4.94590 .69950 .13890 .0281 14.665 9.779 .59920 8.89900 12.15950 -5.16830 .00000 5.84790 -4.94900 .68120 .14910 10.158 14.665 22.135 .60020 7.36720 12.1940 -5.20170 .00000 5.88780 -4.94900 .68120 .14910 10.158 14.665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.81830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.81830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.81830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.801830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.801830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.801830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.801830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.801830 -4.99500 .73700 .15910 -0.00114 .66710 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000				CVS	0 747/1	OI 51	(	ORBITER DAT	<b>A</b>	(BGK)	07) (29,	IAN 75 1
REF = 474,8100 IN. YMPP = .0000 IN.70  REF = 936.8800 IN. ZMPP = 375.0000 IN.20  RUN NO. 820/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ MACH DX DY BETAO PHI ALPHAN BETA CL CO CH 14.5650 .5.136 .59950 9.20660 12.15960 -5.16830 .00000 5.84790 -4.94590 .69950 .13890 .0281 14.665 9.779 .59920 8.89900 12.15950 -5.16830 .00000 5.84790 -4.94900 .68120 .14910 10.158 14.665 22.135 .60020 7.36720 12.1940 -5.20170 .00000 5.88780 -4.94900 .68120 .14910 10.158 14.665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.81830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.81830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.81830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.801830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.801830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.801830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.801830 -4.99500 .73700 .15910 -0.00114 .665 32.135 .60020 7.36720 12.1940 -5.20170 .00000 5.801830 -4.99500 .73700 .15910 -0.00114 .66710 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000		REFERENC	E DATA							PARAHETRI	C DATA	
REF = \$734,8100 IN. \$248P = \$755,000 IN.70  CALE = 0.300  RUN NO. \$220P = \$755,000 IN.70  REF = \$250,0000 SQ.FT. \$189P = \$755,000 IN.70  REF = \$250,0000 SQ.FT. \$189P = \$755,000 IN.70  RUN NO. \$220P = \$755,000 IN.70  RUN NO				= 1109.4	סא.או מפספ				ALPHAC =	4.000	BETAC =	-5.00a
REF = 936.6900 IN.		474.8100 IN.	YHRP	= .4	0000 IN.YO							
CALE * .0300  RUN NO. 6207 0 RN/L * 3.25 GRADIENT INTERVAL * -1.007 *1.00  RUN NO. 6207 0 RN/L * 3.25 GRADIENT INTERVAL * -1.007 *1.00  ALPHAO DZ HACH DX DY GETAO PHI ALPHAH BETA CL CO CLH 14.574 2.199 .59990 9.40160 12.14780 -5.18860 .00000 5.64790 -4.94950 .69590 .13960 .0258 14.656 5.136 .59950 9.20660 12.15380 -5.18230 .00000 5.84950 -4.94950 .69590 .13960 .0258 14.650 9.779 .59920 8.89000 12.15950 -5.18330 .00000 5.84950 -4.94950 .69590 .14360 .0158 14.655 17.264 .60090 6.39210 12.17450 -5.18330 .00000 5.84950 -4.94950 .69690 .14360 .0158 14.655 32.135 .60020 7.35720 12.19480 -5.20170 .00000 5.82750 -4.94950 .69690 .14360 .0158 14.655 32.135 .60020 7.35720 12.19480 -5.20170 .00000 5.82220 -4.94930 .72520 .15940 .0048 14.659 32.135 .60020 7.35720 12.19480 -5.20170 .00000 5.82220 -4.94930 .72520 .15940 .0048 14.659 32.135 .60020 7.35720 12.19480 -5.20170 .00000 5.80220 -4.94930 .72520 .15940 .0048 14.659 32.135 .60020 7.35720 12.19480 -5.20170 .00000 5.80220 -4.94930 .72520 .15940 .0048 14.659 32.135 .60020 7.35720 12.19480 -5.2020 .00000 5.80220 -4.94930 .72520 .15940 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .0000			ZHRP	<b>- 375.</b> (	0000 IN.ZO							
RUN NO. 620/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CL CD CLH 14.674 2.196 .59930 9.40160 12.14760 -5.16860 .00000 5.64760 -4.94660 .64770 .13890 .0481 14.655 5.136 .59950 9.20660 12.15380 -5.16830 .00000 5.64760 -4.94660 .64770 .13890 .0288 14.655 5.136 .59950 9.20660 12.15380 -5.16830 .00000 5.64760 -4.94660 .69770 .13890 .0288 14.655 17.264 .60090 6.39210 12.15850 -5.16830 .00000 5.64980 -4.94700 .66950 .13960 .0288 14.655 17.264 .60090 6.39210 12.17450 -5.16939 .00000 5.63750 -4.94900 .69630 .14360 .0158 14.655 17.264 .60090 6.32210 12.17450 -5.16939 .00000 5.63750 -4.94900 .69630 .14360 .0158 14.659 32.135 .60020 7.36720 12.19490 -5.20170 .00000 5.6220 -4.94930 .72650 .16540 .0048 14.659 32.135 .60020 5.32680 12.22610 -5.20170 .00000 5.6220 -4.94930 .72650 .16540 .0048 14.659 47.232 .59990 5.33680 12.22610 -5.20170 .00000 5.60200 -4.95250 .73700 .15510 -00011 14.671 62.066 .60090 5.32680 12.22610 -5.21690 .00000 5.60200 -4.99250 .74580 .15810 -00511 14.671 62.066 .60090 5.32680 12.22610 -5.21690 .00000 5.60200 -4.99250 .74580 .15810 -00511 14.671 62.066 .60090 5.32680 12.22610 -5.21690 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .0000	SCALE =	.0300							BETAO =			
ALPHAO DZ MACH OX DY BETAO PHI ALPHAH BETA CL CO CLH 14.674 2.190 .59990 9.40160 12.14780 -5.18880 .00000 5.84790 -4.94690 .69770 .13890 .0481 14.656 5.136 .59950 9.40660 12.15380 -5.18230 .00000 5.84890 -4.94700 .66950 .13960 .0258 14.655 9.778 .59920 8.89900 12.15850 -5.18330 .00000 5.84890 -4.94090 .68120 .14010 .0168 14.655 17.264 .60090 8.36210 12.17450 -5.18330 .00000 5.85750 -4.94990 .69120 .14010 .0168 14.655 32.135 .60020 7.35720 12.19460 -5.20170 .00000 5.85260 -4.94930 .72050 .15040 .0048 14.656 32.135 .60020 7.35720 12.19460 -5.20170 .00000 5.86260 -4.94930 .72050 .15040 .0048 14.657 62.066 .60090 5.31690 12.22610 -5.20820 .00000 5.86260 -4.94930 .72050 .15040 .0048 14.657 62.066 .60090 5.31690 12.22610 -5.20820 .00000 5.80500 -4.99930 .72050 .15040 .0048 14.671 62.066 .60090 5.31690 12.22610 -5.21690 .00000 5.80200 -4.99930 .72050 .15040 .0048 14.671 62.066 .60090 5.31690 12.22610 -5.21690 .00000 5.80200 -4.99930 .72680 .15510 -0.0011 14.671 62.066 .60090 5.31690 12.22610 -5.21690 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000							-		DX =		-	
14.674			RUN NO.	820/ 0	RN/L =	3.25 GRA	DIENT INTER	RVAL1.6	90/ 4.00			
14.674 2.196		DZ	MACH	ĐΧ	DY	BETAO	PHI	ALPHAH	BETA	CI	cn	CT H
14.655 5.136 5.9950 9.20660 12.15380 -5.18230 .00000 5.84540 -4.94080 .66950 .13960 .0258 14.655 9.779 .59920 8.89000 12.15850 -5.18330 .00000 5.84540 -4.94080 .69630 .14350 .01158 14.655 17.264 .60090 8.39210 12.17450 -5.18989 .00000 5.82750 -4.94980 .69630 .14350 .01158 14.656 32.135 .60020 7.35720 12.19480 -5.20170 .00000 5.82820 -4.94830 .72050 .15040 .0048 14.657 63.2050 .00000 .00000 .00000 .00000 5.82820 -4.94830 .72050 .15040 .0048 14.659 47.232 .59990 6.32980 12.21060 -5.20820 .00000 5.82820 -4.94830 .72050 .15040 .0048 14.671 62.086 .60090 5.31850 12.22610 -5.21690 .00000 5.80280 -4.99520 .73700 .1551000511 14.671 62.086 .60090 5.31850 12.22610 -5.21690 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	14.674			9.40160	12.14780	-5.18880	.00000					
14.650 9.779 .59920 8.98000 12.15650 -5.16330 .00000 5.84540 -4.94080 .68120 .14010 .01681	14.656		.59950	9.20660	12.15380	-5.18230						
14.655 17.264	14.650	9.779	.59920	B.89000	12.15850	-5.10330	.00000					
14.665 32.135 .60020 7.36720 12.19480 -5.20170 .00000 5.82280 -4.94830 .72050 .15040 .0048 14.669 47.232 .59990 6.32980 12.21069 -5.20120 .00000 5.81630 -4.95250 .73780 .1551000511 14.671 62.066 .60090 5.31850 12.26610 -5.21690 .00000 5.80290 -4.94930 .74580 .1501000511  GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	14.655	17.264	.60090	8.38210	12.17450							
14.669 47.232 .5990 6.32980 12.21060 -5.20820 .00000 5.81630 -4.95250 .73700 .1551000011	14.666	32.135	.60020	7.36720	12.19480	-5.20170						
14.671 62.086 .60090 5.31880 12.22610 -5.21690 .00000 5.80280 -4.94930 .74580 .1581000511	14.669	47.232	.59990	6.32980	12.21060							
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	14.671	62.086	.60090	5.31880	12.22610	-5.21690						
REFERENCE DATA  REFERENCE DATA  REFERENCE DATA  REF. = 2690,0000 SQ.FT.		GRADIENT	.00000	.00000	.00800	.00000						
ALPHAO DZ MACH DX DY BETAO PHI ALPHAH BETA CL CO CLH 10.102 -2.746 .60020 9.41230 12.35040 -5.23370 .00000 9.67320 -4.96500 .25940 .04700 -00950 10.146 4.894 .60059 8.38130 12.31250 -5.21220 .00000 9.66320 -4.96560 .23360 .05670 -00950 10.257 27.611 .59910 7.35250 12.30800 12.33500 -5.22130 .00000 9.66320 -4.95820 .33760 .05650 -00940 .20050 -00950 12.3990 -5.23390 .00000 9.66320 -4.95820 .33760 .05650 -00940 .20050 -00950 .20050 -5.23390 .00000 9.66320 -4.95820 .33760 .05650 -00940 .20050 -00950 .20050 -5.23390 .00000 9.66320 -4.95820 .33760 .05650 -00940 .20050 -00950 .20050 -5.23390 .00000 9.66320 -4.95820 .33760 .05670 -00950 .20050 -5.23390 .00000 9.66320 -4.95820 .33760 .05670 -00950 .20050 -4.95820 .33760 .05670 -00950 .20050 -4.95820 .33760 .05670 -00950 .20050 -4.95820 .33760 .05670 -00950 .20050 -4.95820 .33760 .05670 -00950 .20050 -4.95820 .33760 .05670 -00950 .20050 -4.95820 .33760 .05670 -00950 .20050 -4.95820 .33760 .05670 -00950 .20050 -4.95820 .33760 .05670 -00950 .20050 -4.95820 .33760 .05670 -00950 .20050 -4.95820 .33760 .05670 -00950 .20050 .20050 .20050 -4.95820 .33760 .05670 -00950 .20050 .20050 .20050 .20050 .4.95820 .33760 .05670 -00950 .20050 .20050 .20050 .20050 .20050 .4.95820 .33760 .05670 -00950 .20050 .20050 .20050 .20050 .20050 .4.95820 .33760 .05670 -00950 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20050 .20				CVSO	747/1	01 SI	o	RBITER DATA	<b>L</b>	(BGN) C	18) ( 03 S	EP 75 1
ALPHAC DZ HACH DX DY BETAO FHI ALPHAN BETA CL CD CLH 10.102 -2.746 .60020 9.41230 12.35040 -5.23370 .00000 9.67360 -4.96500 .25940 .0557000900 10.196 4.894 .60059 8.38130 12.31250 -5.2120 .00000 9.67360 -4.95820 .33760 .0557000900 10.295 42.408 .60050 3.20660 12.33980 -5.22330 .00000 9.66320 -4.97280 .40430 .0655000940 10.295 42.408 .60060 3.20660 12.33980 -5.23390 .00000 9.65050 -4.95880 .44780 .0733000940		REFERENCE	DATA							PARAHETRIC	DATA	
REF = 474.8100 IN. YHRP = .0000 IN.YO		2690.0000 SQ.F	T. XMRP	= 1109.0	000 IN.XQ				ALPHAC =	A. Onn	BETAC -	-E 000
ALPHAO DZ MACH DX DY BETAO PHI ALPHAH BETA CL CD CLH 10.102 -2.746 .60020 9.41230 12.35040 -5.23470 .00000 9.67100 -4.96040 .21100 .04120 .00656 10.121 .392 .60070 9.99580 12.32340 -5.2150 .00000 9.67360 -4.96600 .25940 .0470000756 10.146 4.894 .60059 8.38130 12.31250 -5.21220 .00000 9.67360 -4.96550 .29350 .05110 .00956 10.184 12.419 .59910 7.35250 12.30890 -5.21150 .00000 9.66850 -4.95820 .33780 .0567000906 10.257 27.611 .59910 5.25330 12.33560 -5.22430 .00000 9.66320 -4.97280 .40430 .0665000940 10.295 42.408 .60060 3.20660 12.34980 -5.23390 .00000 9.65050 -4.95280 .44780 .0733000996			YMRP	= .0	000 IN.YO							
ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CL CD CLH 10.102 -2.746 .60020 9.41230 12.35040 -5.23470 .00000 9.67100 -4.96040 .21100 .04120 .00655 10.121 .392 .60070 8.99580 12.32340 -5.2150 .00000 9.67210 -4.96600 .25940 .0470000750 10.146 4.894 .60059 8.38130 12.31250 -5.21220 .00000 9.67360 -4.95550 .29350 .0511000950 10.184 12.419 .59910 7.35250 12.30890 -5.21150 .00000 9.66850 -4.95820 .33760 .0567000900 10.257 27.611 .59910 5.25330 12.33560 -5.22430 .00000 9.66320 -4.97280 .40430 .0665000940 10.295 42.408 .60060 3.20660 12.34980 -5.23390 .00000 9.65050 -4.95880 .44780 .07330009900			ZHRP	* 375.0	000 IN.ZO							
ALPHAO DZ MACH DX DY BETAO FHI ALPHAN BETA CL CD CLH 10.102 -2.746 .60020 9.41230 12.35040 -5.23470 .00000 9.67100 -4.96040 .21100 .04120 .00650 10.121 .392 .60070 8.99580 12.32340 -5.21950 .00000 9.67210 -4.96600 .25940 .0470000750 10.146 4.894 .60059 8.38130 12.31250 -5.21220 .00000 9.67360 -4.95550 .29350 .0511000990 10.184 12.419 .59910 7.35250 12.30890 -5.21150 .00000 9.66850 -4.95820 .33760 .0557000990 10.257 27.611 .59910 5.25330 12.33560 -5.22430 .00000 9.66320 -4.97280 .40430 .0665000940 10.295 42.408 .60060 3.20660 12.34980 -5.23390 .00000 9.65050 -4.95840 .44780 .0733000990	CALE -	.0300										
ALPHAO DZ MACH DX DY BETAO PHI ALPHAH BETA CL CD CLH 10.102 -2.746 .60020 9.41230 12.35040 -5.23470 .00000 9.67100 -4.96040 .21100 .04120 .00658 10.121 .392 .60070 8.99580 12.32340 -5.21950 .00000 9.67210 -4.96600 .25940 .0470000758 10.146 4.894 .60050 8.38130 12.31250 -5.21220 .00000 9.67360 -4.96550 .29350 .0511000998 10.184 12.419 .69910 7.35250 12.30890 -5.21150 .00000 9.66650 -4.95820 .33780 .0567000998 10.257 27.611 .59910 5.25330 12.33560 -5.22430 .00000 9.66320 -4.97280 .46430 .0665000948 16.295 42.408 .60060 3.28660 12.34990 -5.23390 .00000 9.65050 -4.95880 .44780 .0733000998											-	
10.102 -2.746			RUN NO.	0/ 0	RN/L =	3.24 GRA	DIENT INTER	IVAL0	0/ 12.00			
10.102 -2.746 .60020 9.41230 12.35040 -5.23470 .00000 9.67100 -4.96040 .21100 .04120 .00650 10.121 .392 .60070 8.99580 12.32340 -5.21950 .00000 9.67210 -4.96600 .25940 .0470000750 10.146 4.894 .60050 8.38130 12.31250 -5.21220 .00000 9.67360 -4.96550 .29350 .0511000900 10.184 12.419 .59910 7.35250 12.30890 -5.21150 .00000 9.66550 -4.95820 .33780 .0567000900 10.257 27.611 .59910 5.25330 12.33560 -5.22430 .00000 9.66320 -4.97280 .40430 .0665000940 10.259 42.408 .60060 3.20660 12.34990 -5.23390 .00000 9.65050 -4.95840 .44780 .0733000990			HACH	DX	DY	BETAO	FHI	ALPHAH	BETA	Ċī	CO.	<b>~</b> L
10.121 .392 .60070 8.99580 12.32340 -5.21950 .00000 9.67210 -4.96600 .25940 .0470000750 10.146 4.894 .60050 8.38130 12.31250 -5.21220 .00000 9.67360 -4.96550 .29350 .0511000990 10.184 12.419 .59310 7.35250 12.30890 -5.21150 .00000 9.66850 -4.95820 .33780 .0567000990 10.257 27.611 .59310 5.25330 12.33560 -5.22430 .00000 9.66320 -4.97280 .40430 .0665000940 10.295 42.408 .60060 3.20660 12.34980 -5.23390 .00000 9.65050 -4.95880 .44780 .0733000990				9.41230	12.35040	-5.23470	.00000					
10.146			.60070	8.99580	12.32340	-5.21950						
10.184 12.419 .59310 7.35250 12.30890 -5.21150 .00000 9.66650 -4.55220 .33780 .0557000900 10.257 27.611 .59310 5.25330 12.33560 -5.22430 .00000 9.66320 -4.97280 .40430 .0665000940 10.255 42.408 .60060 3.20660 12.34980 -5.23390 .00000 9.65050 -4.95480 .44780 .0733000990			.60050	8.3B130	12.31250	-5.21220	.00000					
10.257 27.611 .59910 5.25330 12.33560 -5.22430 .09000 9.66320 -4.97280 .46430 .6665000840				7.35250	12.30890	-5.21150	.08880					
10.295 42.408 .60060 3.20660 12.34980 -5.23390 .00000 9.65050 -4.95480 .44780 .0733000990				5.25330	12.33560	-5.22430	.08080					
GRADIENT - 8000k - 17520 - 50002 00153 00000	10.295				12.34990	-5.23390	.08080	9.66050				
		GRADIENT	08884	13620	00242	.00162		.00033	.08011	.00778	.00091	00053

10.332

10.343

28.819

43.741

GRADIENT

8.78170

7.76010

.00000

01003.

.59970

.00000

.36250

.35160

.00000

-5.23820

-5.23650

.00000

.00000

.00000

.00000

5.88830

5.80220

.00000

.02410

.02420

.00000

.48220

.50250

.00000

.07540

.07920

.00000

-.01410

-.01700

			CAZU	74771	01 51	'	OKOTIEK DVI	^	IBONIU	a, , na sc	s .
	REFEREN	CE DATA							PARAHETRIC	DATA	
SREF = 1 LREF = BREF = SCALE =	9590.0000 SQ 474.8100 IN 936.6900 IN .0300	. YHAP	= .0	080 IN.XO 080 IN.YO 080 IN.ZO				ALPHAC = ELV-1B = ELEVON = BETAO = BX =	8.000 .000 5.000 -5.000 10.000	BETAC • ELV-08 • HACH = PHI • DY •	-5.000 3.000 .600 .000
		RUN NO.	010	RN/L =	3.24	GRADIENT INTE	RVAL = .	00/ 12.00			
ALPHAO	DZ	насн	DX	DY	BETAO	PHI	ALPHAN	BETA	CL	CD	CLH
14.529	426	.59900	7.87850	12.21900	-5.1928	00000.	9.70100	-4.94640	.50320	.10570	.04030
14.532	2.587	.60000	7.47560	12.21350	-5.1844		9.69980	-4.94880	.53410	.11020	.02560°
14.546	7.236	.59950	6.8440D	12.20290	-5,1813		9,69598	-4.94130	.56240	.11440	.01990
14.574	14.804	.59940	5.81040	12.20650	-5.1837		9,68990	-4.94590	.59920	. 12200	-01780
14.612	29.618	.60010	3.77810	12.23240	-5.1973	80000.0	9.68030	-4.95430	.65410	.13500	.01260
14.638	44.620	.59980	1.70940	12.24440	-5.2057		9.67240	-4.94390	.69240	.14460	.00700
14.647	59,279	.60050	31800	12.25590	-5.2130		9.66660	-4.94210	.71710	.15130	.00040
******	GRADIENT	00011	13586	00228	.0005		00080	.00161	.00509	.00090	00125
	referen	CE DATA	CA20	747/1	01 51	1	ORBITER DAT		(BGN10		N 75 )
SREF = 1	2690.0000 50	.FT. XMRP	= 1109.0	סא.או ספס				ALPHAC =	4.000	BETAC =	.000
LREF =	474.8100 IN	•• - •		000 IN.YO				ELV-IB =	.000	ELV-08 =	3.000
BREF =	936.6800 IN	•		000 IN.ZO				ELEVON =	5.000	HACH =	.600
SCALE =	.0309	. 2.40	- 5.5.0					BETAC =	-5.000	PHI =	.000
	.0300							DX =	10.000	DY =	.000
		RUN NO.	831/ 0	RN/L =	3.27	GRADIENT INTE	RVAL = -1.	00/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETAC	PHI	ALPHAH	BETA	CL	CB	CLM
10.322	-1.388	.59950	10.83960	.35760	-5.2401	00000. 0	5.82770	.01750	.37600	.06250	.03700
10.388	1.603	.59900	10.63220	.35120	-5.2358	08000. 0	5.82730	.01740	.40060	.06340	.01450
10.302	6.139	.59980	10.32610	.35200	-5.2339	eccos. e	5.82560	.01920	.42370	.05550	00010
10.313	13,778	.60010	9.80690	.35410	-5.2339	00000. 0	5.81850	.02270	.44800	.06920	00760

DATE OF DEC 75

TABULATED SOURCE DATA - CAZO

.00000

.00000

GRADIENT

.00000

.00000

PAGE 261 CA20 747/1 01 S1 CRBITER DATA (BON109) ( 20 JAN 75 ) PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = .000 XMRP = 1109.0000 IN.X0 SREF = 2690.0000 SQ.FT. ELV-IB + .000 ELV-08 = 3.800 474.BL08 IN. YMRP .0000 IN.YO LREF -.600 ELEVON = 5.000 HACH 7MRP = 375,0000 IN.ZO BREF \* 936.6800 IN. .000 BETAO = -5.000 PHI SCALE -.0300 10.000 DY .000 DX 3.28 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 834/ 0 RN/L = CO CLH ALPHAH **AT39** CL MACH DΧ DY BETAO PHI ALPHAO ĐΖ .06260 .13266 5.85520 .04520 .64310 .60020 9.50130 .34230 -5.20480 .00000 14.694 .928 .04200 -5.20390 .00000 5.65320 .04780 .66120 .13240 9.29690 .34420 14.676 3.997 .60080 .68210 .13660 .02170 -5.20340 .00000 5.84700 .04140 .35120 14.659 0.486 .60030 0.99580 .70160 .14300 .01080 .60010 8.47870 .35490 -5.20500 .00000 5.83780 .05340 14.650 16.091 .15330 .00200 .37940 -5.20880 .00000 5.82078 .05580 .71280 7.44890 14.656 31.108 .59990 -.00340 .65490 .72970 .15890 6.42710 .37940 -5.20940 .00000 5.81320 46,023 .60010 14.662 .75110 .15940 -.00660 .35910 -5.21050 .00000 5.80510 .06210 5.41320 .59938 14.673 60.943 .00590 .00013 -.00671 .00000 -.00065 .00059 GRADIENT .00020 -.06659 .00062 .00029 ORBITER DATA (BGNI 10) ( 20 JAN 75 1 CVSO 747/1 01 51 PARAMETRIC DATA REFERENCE DATA ALPHAC = 8.000 BETAC = .000 1109.0000 IN.XO SREF - 2690.0000 SQ.FT. XMRP = .000 ELY-08 -3.000 ELY-IB -YHRP = .0000 IN.YO LREF = 474.8100 IN. ELEVON = 5.000 HACH .600 ZMRP = 375.0000 IN.ZO BREF -935.6800 IN. -5.000 PHI .000 BETAO = SCALE -.0300 10.000 DY .000 DΧ GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 840/ 0 RN/L = 3.20 BETA CL CO CLIS PHI ALPHAR DΧ DY BETAO ALPHAD OZ HACH .05380 .21700 .04130 .01600 9.37460 .38610 -5.26550 .00000 9.65720 .60080 10.364 -3.002 9.65830 .05400 .25750 .04560 -.00110 -5.24980 .00000 6.99600 .36130 10.306 -.075 .59930 .29260 -.00690 9.65590 .08260 .04950 -5.23970 .00000 4.516 .59980 8.36210 .34360 10.328 -.00910 -5.23350 .00000 9.64850 .05410 .33820 .05590 7.33520 .33740 10.360 12.075 .59940 .40750 -.01120 9.64510 .06470 .06690 -5.23860 .00000 .60020 5.29150 .34910 10.425 26.946 -.01389 .45240 .07440 3.20180 .35070 -5.23790 .00000 9.64320 .06490 10,467 42.070 .59950

.00000

.00000

.00000

.00000

.00000

PAGE 282 TABULATED SOURCE DATA - CARD DATE OF DEC 75 (BON110) ( 20 JAN 75 1 CREITER DATA CARO 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 9.000 .600 ALPHAC = BETAC = XMP - 1109.0000 IN.XO SSEE # 2690.0000 SQ.FT. .000 ELV-08 -3.000 ELV-IB = .0000 IN.YO 474.8100 IN. YHRP = LREF = HACH .600 ELEVON = 5.000 375.0000 IN.ZO ZMRP = BREF = 936.6800 IN. PHI .000 -5.000 BETAD -.0300 SCALE = .000 DY 10.000 GRADIENT INTERVAL \* -1.60/ 4.00

RN/L = 3.29 RUN NO. 837/ 0 CD CTH **ALPHAH** BETA CL DY BETAO PHI ĐΖ MACH ĐΧ ALPHAO .48286 .05070 .09710 .00420 .38570 -5.22010 .00000 9.58140 0.18810 -2.383 .59980 14.301 .09850 .05030 9.62610 .00410 .48130 -5.21720 .00000 .38570 .60010 7.96770 14.539 -1.012 .10300 .03250 .00420 .51440 -5.21070 .08080 9.68190 .60010 7.59820 .37440 14.492 1.816 .10320 .03230 .51940 .00000 9.69180 .00420 .37380 -5.21069 7.55200 .60080 14.537 2.114 .10980 .02150 9.67480 .01540 .54650 -5.28600 .00000 .35650 6.55140 14.547 6.572 .60090 .58850 .11810 .01540 .01810 9.67030 -5.20440 .00000 14.073 .59990 5.93050 .36460 14.578 .00900 .13280 .01160 .64950 -5.20900 .00000 9.66010 3.85470 .37730 .60010 28.194 14.612 .00290 .01910 .68780 .14320 .00800 9.65280 -5.20970 1.79770 .37490 14.641 44.237 .60050 -.00150 .14930 .71070 9.64550 .01740 .37670 -5.21130 .00000 -.22740 59.932 .59980 14.651 .00067 -.00067 -.00033 .00000 .00000 .00033 .00000 -.00201 .00235 -. 15493 GRADIENT

> (BGN111) ( 20 JAN 75 ) ORBITER DATA 747/1 01 51 CA20

> > -.00026

PARAMETRIC DATA REFERENCE DATA

4.000 BETAC . .000 ALPHAC = XMRP = 1109.0000 IN.XO SREF = 2690,0000 SQ.FT. 3.000 ELV-IB = .000 ELV-08 \* YMRP = .0000 IN.YO LREF = 474.8100 IN. HACH .680 5.000 ELEVON = ZMRP = 375.0000 IN.ZO 936.6800 IN. BREF = .000 BETAC = -5.000 PHI SCALE = .0300 .000 DY 10.000 GΧ

GRADIENT INTERVAL = -1.00/ 4.80 RUN NO. 843/ 0 3.33 RN/L = CLM ALPHAH BETA CL œ BETAO PHI ΟY HACH ÐX ALPHAO DZ .03140 .06030 .43660 .05920 5.84880 10.38400 -5.24130 .00000 .60840 .60510 -.843 10.446 .07050 .45310 .01360 .05820 10.39070 -5.23930 .00000 5.84800 .59930 .59950 2.190 10.429 .07178 .00510 5.84290 .05270 .46450 .00000 -5.23920 .29520 10.38630 6.658 .59940 10.422 -.00090 5.83930 .05110 .48120 .07460 -.22548 10.38990 -5.24230 .00000 .59930 14.218 10.439 .50680 .07940 -.00680 .00000 5.62280 .65930 -5.25400 16.40340 .60070 -1.25240 10.443 29.284 .08270 -.01150 .52350 .00000 5.81300 .05180 .60010 -2.28200 10.41680 -5.26110 44.292 10.450 -.00589 -.00069 .00546 .00043

.00000

.00066

.00222

-.06800

-.00030

GRADIENT

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

PAGE 283

										17)	u≥ टराउ
			CAE	0 747/1	01 51		ORBITER DAT	A	(BGN11	15) (50 °	JAN 75 1
	REFEREI	NCE DATA							PARAMETRIC	DATA	
SREF *	2690.0000 S	D.FT. XMRP	= 1109.	OX.NI 0000							
LREF =	474.8100 II			0000 IN.YO				ALPHAC = ELV-18 =	4.000	BETAC =	.000
BREF =	936.6808 11		-	0000 IN.ZO				ELEVON +	.800	ELV-08 *	3.000
SCALE =	.0300							BETAO -	5.000 -5.000	MACH =	.600
								DX =	10.000	PHI =	.000
									10.000	DY *	10.000
		RUN NO	. 818/ 0	RN/L =	3.27	RADIENT INTER	RVAL = -1.0	00/ 4.00			
ALPHA0	DŽ	HACH	ΟX	DY	BETAG	PHI	ALPHAH	OCT.	•		
10.351	-1.302	.59940	10.82050	10.31730	-5.21620		5.83140	9ETA .07500	CL	CĐ	CLM
10.339	1.671	.60090	10.62210	10.32040	-5.21560		5.83320	.07500	.40000 .42440	.05220	.02750
10.338	6.235	.60090	10.31230	10.31910	-5.21570		5.82900	.07090	.43970	.06480	.00610
10.344	13.633	.60080	9.81000	10.31880	-5.21750		5.82270	.06730	.45900	.05660	00230
10.363	28.774	.60000	8.77700	10.32690	-5.22650		5.81020	.07450	.48930	.07020 .07600	00660
10.378	43.866	.60060	7.73840	10.34080	-5.23270		5.80530	.06750	.50940	.08000	01010
	GRADIENT	.00000	.00000	.00000	.00000		.08000	.00000	.00000	.00000	01330
		RUN NO.	. 821/0	RN/L =	3.24 G	RADIENT INTER	1.1- = JAV	10/ 4.00			
ALPHAO	DZ	MACH	DX	DY	OATEB	PHI	ALPHAN	BETA	CL	හ	CLH
14.674	1.871	.59920	9.44540	10.32750	-5.18870	.00800	5.85890	.03760	.66690	. 13260	.03970
14.654	4.908	.60040	9.24120	10.33400	-5.18670	.00000	5.85B20	.03530	.68130	. 13540	.02140
14.651	9.491	.59950	8.92720	10.34080	-5.18670	.00000	5.85220	.01460	.68970	13750	.01450
14.654	16.765	.600 <b>08</b>	8.43190	10.34180	-5.18990	.00000	5.84220	.01970	.70160	14190	.01090
14.662	31.845	.59930	7.40100	10.36010	-5.19990	.08086	5.82760	.00710	.72460	15000	.00420
14.672	46.937	.59980	6.36530	10.36580	-5.20490	.00000	5.81740	.01960	.73850	.15490	00070
14.669	61.681	.59950	5.35330	10.37880	-5.21170	.00800	5.80840	.02060	.74680	15790	00540
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

(BGN113) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 8.000 BETAC = XMRP = 1109.8880 IN.XOSREF = 2699.0000 SQ.FT. 3.000 .000 ELV-08 = ELV-18 -.0000 IN.YO YMRP = 474.8100 IN. .600 5.000 ELEVON = MACH = 375.0000 IN.20 ZHRP = 936.6800 IN. BREF = -5.080 PHI .000 BETAD = SCALE = .0300 .080 ĐΥ 10.000 DΧ GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 846/ 0 RN/L = 3.27 CLH CD CL. BETA BETAO PHI **ALPHAH** DY DZ MACH DX ALPHAG .11540 .05230 9.71210 .05500 .56470 -5.22880 .00800 .59320 -2.08110 10.45250 14.663 -.234 .11900 .04130 .58580 9.70900 .05080 .00000 -2.49430 10.44140 -5.22280 14.664 2.831 .59940 .03370 . 12460 .05560 .60880 .00000 9.70290 10.42750 -5.21910 .59990 -3.68220 14.673 7.169 .02770 .63930 .13230 9.69380 .04350 -5.21788 .00000 10.41340 .68010 -4.12640 14.695 14.825 .01820 .68520 .14430 .64930 .00000 9.69120 10.41430 -5.22390 -6.18250 .59310 14.719 29.804 .15330 .00940 .71710 .00000 9.67210 .05230 10.42500 -5.23080 -8.24790 14.736 44.793 .60010 .00230 .05370 .73450 .15950 .00000 9.66970 -5.24020 10.44120 14.745 59.569 .60000 -10.29910 .00888 .60117 -.00359 -.00137 -.00101 .00228 .00000 -.13481 -.00362 .00007 **GRADIENT** (9GN114) ( 28 AUG 75 ) DRBITER DATA CA2D 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 8.000 BETAC # .000 ALPHAC = XHRP = 1109.0000 IN.XO SREF = 2690,0000 SQ.FT. 3.000 ELV-18 = .000 ELV-OB = .0000 IN.YO YHRP = LREF . 474.8100 IN. HACH . .600 ELEVON = 5.000 375.0000 IN.ZO 936.6800 IN. ZMRP = BREF = PHI .000 -5.000 BETAO = SCALE -.0300 10.000 DΥ DX = 10.000 GRADIENT INTERVAL - -1.00/ 4.00 3.23 RUN NO. 827/ 0 RN/L = CLH BETA CL CD BETAO PHI **ALPHAH** ĐΧ DY DZ MACH ALPHAO .03820 .00780 .23220 9.67390 .08450 .00000 9.42810 10.35950 -5.22610 -2.709 .59950 10.123 ~.00470 .04340 .09690 .26840 .00000 9.67420 10.33760 -5.22180 .59980 8.93410 10.130 .522 .29960 .04810 -.00770 .09450 -5.21740 .00000 9.67530 10.32390 8.39770 4.682 .59920 10.153 .05500 -.00790 .34120 .00000 9.67190 .07680

10.32290

10.32470

10.33450

.00000

7.36470

5.29070

3.24330

.00000

.68030

.59980

.60050

.00000

10.169

10.262

10.293

12.431

27.432

42.263

GRADIENT

-5.21670

-5.22390

-5.23260

.00000

.00000

.00000

.00000

9.66650

9.66240

.00000

.08520

.09340

.00200

-.00790

~.00980

.00000

.06580

.07290

.00000

.40580

.44800

			CA20	797/1	01 51	•	DRBITER DATA	•	(8GN) 1	6) ( 20 JA	н 75 э
	MEFER	ENCE DATA							PARAMETRIC	DATA	
SREF =	2690.0000	SO.FT, XMRP	= 1109.0	000 IN.XU				ALPHAC .	4.000	BETAC .	5.009
LREF =	474.8100	IN. YHRP	0	000 IN.YO				ELV-18 +	. 000	ELV-08 =	3.000
BREF =	936.6800	IN. ZMRP	- 375.0	069 IN. <b>ZO</b>				ELEVON .	5.000	HACH =	.600
SCALE =	. 0300							BETAO =	-5.000	PHI =	.000
								DX •	10.000	DY =	.000
		RUN NO	. 833/ 0	RN/L ■	3.28 G	RADIENT INTER	RVAL = -1.0	007 4.00			
ALPHA0	DZ	MACH	DX	DY	BETAO	РНІ	ALPHAH	BETA	CL	CO	CLM
14.703	.481	.59990	9.50420	-1.51150	-5.21160	.00000	5.83950	5.03250	.61710	. 13770	06150
14 . 674	3,583	59940	9.30230	-1.49580	-5.21110	.00000	5.84040	5.03840	.65160	. 13830	. 04800
14.669	7,765	.60000	9.02180	-1.51040	-5.21030	.00000	5.84090	5.04 <del>94</del> 0	.66980	. 13900	. 03350
14.666	15.725	.60050	8.46640	-1.51760	-5.20820	.00000	5.83410	5.04880	. 69550	. 14410	.01740
14.665	30.510	.59960	7.48080	-1.52620	-5.20760	.00000	5.82210	5.06330	.72390	. 15220	.00420
14.678	45.572	.59900	6.45060	-1.52710	·5.20570	.00000	5.81350	5.04380	.74100	. 15730	00260
14.674	60 1 <del>9</del> 7	.59960	5.42680	-1.53350	-5,20860	.00000	5.80710	5.05660	. 75120	. 15990	00630
	GRADIENT	00016	06508	.00506	.00016	.00000	.00029	.0019n	.01112	.00019	01070
			CAPO	747/1	01 S1	í	ORBITER DATA		(BGN) 1	61 (58 TV	N 75 I
	REFER	ENCE DATA							PARAMETRIC	DATA	
SREF -	2690.0000	SQ.FT. XMRP	- 1109.0	000 IN.XO				ALPHAC =	8.000	BETAC =	5.000
LREF .	474.0100	IN. YMRP	0	000 IN.YO				ELV-18 =	.080	ELV-08 =	3.000
BREF =	936.6800	IN. ZMRP	⇒ 375.0°	050 IN.ZO				ELEVON -	5.000	MACH =	. 600
SCALE =	.0300							BETAO -	<b>~5</b> .080	PH1 =	.000
								⊃X =	10.000	DY -	.006
		RUN NO	. 839/ C	RN/L =	3.26 G	RADIENT INTE	RVAL = -1.6	00/ 4.00			
ALPHA0	DZ	MACH	DХ	DY	BETAG	PHI	ALPHAH	BETA	CL	CD	CLH
10.294	-2.736	. 59960	9.31160	-1.55500	-5.28470	.00000	9.65420	5.05110	.20820	. 04000	.01490
10.306	. 352	.60000	8.90260	-1.59040	-5.27000		9.65590	5.04940	. 25010	. 04570	.00230
10.320	3.098	.59990	8.53200	-1.61720	-5.25970		9.65370	5.05760	.27330	. 048 <b>30</b>	00220
10.367	12.333	.60060	7.27900	-1.64760	-5.24150		9.65120	5.04550	. 33750	.05710	00530
10.428	27.414	. 59940	5.21140	-1.66970	-5.23730		9.64660	5.06340	.40980	. 06780	00990
10.473	42.599	.60060	3.11550	-1.65880	-5.23650		9.64210	5.05310	. 45ଏଥିବ	.07510	01320
	GRADIENT	00004	13496	00976	. 00375	.00000	00080	.00299	.00845	.00095	~.00164

PAGE 295 TARLEATED SOURCE DATA - CA20 DATE OF DEC 75 (BGN114) ( 28 AUG 75 ) ORBITER DATA CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 8.000 BETAC \* .006 ALPHAC = XHRP \* 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. ELV-OB . 3.000 .000 ELV-18 = .8008 IN.YO YHRP . 474.8100 IN. .600 ELEVON = 5.000 HACH ZHRP = 375.0000 IN.ZO 936.6800 IN. BREF = .000 -5,000 PHI BETAO = .0300 SCALE = 10.000 10.000 DΥ ĐΧ GRADIENT INTERVAL = -1.00/ 4.00 3.23 RUN NO. 824/ 0 RN/L = CD CLN **ALPHAH** BETA CL PHI DY BETAO MACH ВX ΟZ ALPHAD .03968 .10190 .02410 .51340 9.70270 10.38610 -5,19730 .00000 7.89880 .59930 -.449 14.536 08880 .53980 .10700 9.69310 .03500 -5.19280 .00000 10.37240 .59980 7.47220 14.541 2.724 .56750 .11289 01150. .02350 .00000 9.69590 -5,18910 6.86560 10.36200 .59920 7.181 14.551 .01790 .12140 .01990 .60280 -5.18960 .00000 9,68780 10.35510 5.65320 .60830 14.577 14.625 .01260 .01950 .65770 .13580 9.67940 .00000 10.35630 -5.19630 .59900 3.80340 29.549 14.616 .14500 .00700 .69470 9.67228 .02160 10.36940 -5.20590 .00000 .60080 1.72210 44.653 14.642 .00050 .02260 .71640 .15130 .00000 9.66720 -5,21140 10.37689 .59980 -.31530 14.647 59.369 -.60403 .00832 .00161 .00344 .00000 -.00113 -.13446 -,08432 .00142 GRADIENT .00016 (BGN115) ( 20 JAN 75 ) ORBITER DATA CAZO 747/1 OI SI PARAMETRIC DATA REFERENCE DATA 5.000 BETAC = ALPHAC = 4.000 XHRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. 3.000 ELV-IB . .000 ELV-0B = YMRP = .0000 IN.YO 474.8100 IN. LREF = ELEVON = 5.000 HACH .600 375.0000 IN.ZO ZMRP = 936.6900 IN. EREF = .000 PHI BETAO --5.000 .0300 SCALE \* .000 10.000 DY DX GRADIENT INTERVAL = -1.00/ 4.00 3.26 RUN NO. 832/ 0 RN/L = CLH **ALPHAH** BETA CL CD ΒY BETAO PHI DX ALFHAO DΖ HACH .06550 .04840 5.05090 .35490 5.82090 -5.24760 .00000 .59910 10.80660 -1.58800 -1.459 10.326 .02000 .39850 .06740 5.04970 -5.24589 .00000 5.82130 -1.60360 .59950 10.60980 10.310 1.577 .05830 .00500 5.05139 .41470 .00000 5.81960 10.30360 -1.62150 -5.24800 10.308 6.169 .60020 -.00350 .44290 .07090 5.81380 5.04780 9.79660 -1,63320 -5.23490 .00000 13.701 .60050 10.316 -.01250 .07610 5.80800 5.05230 .48850 -1.63910 -5.23590 .00000 8.77550 28.714 .60090 10.331 -.01650 5.04990 .50183 .07970 5.80240 -5.23430 .00000

.00800

.00000

.00000

.00000

.00000

.00000

.00000

-1.64140

.00000

43.EB8

GRADIENT

10.344

.60030

.00000

7.74110

OF POOR QUALITY

DATE DI CEC 75 TABULATED SOURCE DATA - CARD

PAGE 887

		CA20 747/	01 81	o	RBITER DATA		(BOH) II	AL 02 1 18	N 75 1
RE	FERENCE DATA						PARAHETRIC	DATA	
SREF = 2690.00 LREF = 474.81 BREF = 936.68 SCALE = .03	OO IN. ZMAP	= 1109.0000 IN. = .0000 IN. = 375.0000 IN.	ro			ALPHAC = ELV-IB = ELEVON = BETAO = OX •	8.000 .000 5.000 -5.000	BETAC = ELV-08 = MACH = PHI = DY =	5.000 3.000 .600 .000
	RUN NO.	839/ 0 RN/L	- 3.26 G	RADIENT INTER	VAL = -1.0	0/ 4.00			
14.540 1. 14.553 6. 14.577 13. 14.613 28. 14.640 43.	832 .59960 865 .60040 746 .60080	OX OY 7.95930 -1.448 7.54570 -1.51 6.9660 -1.51 5.95710 -1.55 3.90000 -1.56 1.03390 -1.5721020 -1.57 .00000 .000	-5.23400 -5.23180 80 -5.21120 00 -5.20860 20 -5.20720 50 -5.20980	.00000 00000 00000	ALPHAN 9.67820 9.67800 9.67420 9.67180 9.58040 9.65590 8.64970	BETA 5.04490 5.04450 5.04760 5.06930 5.05950 5.05190 5.06760	CL .46250 .50070 .53710 .59300 .64700 .59740 .71190	CO .09650 .16400 .11030 .11860 .13330 .14390 .15030	CLH .05820 .03990 .02890 .02000 .01060 .00378 00130
		CA20 747	1 01 SI	c	RBITER DATA	•	(BGN) I	.7) (20 <i>3</i> /	U 175 I
RE	FERENCE DATA						PARAHETRIC	DATA	
LREF = 474.81	00 IN. ZHRP	- 1109.0000 IN 11 0000 IN 275.0000 IN	Y0			ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.000 .000 5.000 -5.000	BETAC = ELY-OB = MACH = PHI = DY =	5.000 3.000 .600 .000
	RUN NO	. 645/ 0 RN/L	<b>-</b> 3.29 G	RADIENT INTER	RVAL = -1.0	19/ 4.00			
10.467 2 10.441 6 10.439 14 19.446 29	MACH 906 .60040 .237 .59980 .513 .59920 .233 .60090 .130 .59990 .219 .59980 ENT00019	OX DY .78870 9.22 .57730 9.23 .28940 9.2223340 9.23 -1.25300 9.24 -2.29460 9.2506725 .00	20 -5.2240 90 -5.23910 90 -5.23900 10 -5.24980 90 -5.25780	00000. 00000. 00000. 00000.	ALPHAR 5.84530 5.84150 5.84000 5.82580 5.81590 5.91540 00121	BETA 5.04420 5.04890 5.05350 5.03800 5.03750 5.03750	CL .41010 .43330 .45780 .48100 .50860 .52470	CD .05940 .06910 .07090 .07490 .08000 .08320	CLH .07570 .04600 .02000 .00520 00520 01050 00945

ORBITER DATA

(BGN118) ( 20 JAH 75 )

OCCE	RENCE	DATA

# PARAMETRIC DATA

SREF = LREF = BREF =	2690.0000 474.8100 936.6800	IN. IN.		.0800	IN.YO				ALPHAC ELY-19 ELEVON BETAO	=	4.000 .000 5.000 -5.000	PHI	-	5.000 3.000 .600 .000
SCALE =	,0300		DUN N∩.	917/ D	%\/L •	3.28	GRADIENT INTERVAL	• -i.	.00/ 4.01	<b>-</b> 0	10.000	DY	•	10.000

		RUN NO	. 817/ D	RN/L •	3.28 000	DIEMI IMP	- 110	• • • • • • • • • • • • • • • • • • • •			
ALPHA0 10.387 10.358 10.354 10.352 10.368 10.375	0Z -1.428 1.603 6.192 13.627 28.854 43.802 GRADIENT	MACH .60050 .59390 .59360 .60060 .60060 .59950	DX 10.80850 10.60430 10.29750 9.79330 8.75340 7.72900 .00000	DY 8.27130 9.27890 8.27540 8.28270 8.28080 8.29670 .00000	8ETAO -5.19700 -5.20120 -5.20800 -5.21310 -5.22320 -5.22860 .00000	PHI .00000 .00000 .00000 .00000 .00000	ALPHAN 5.82810 5.83120 5.82650 5.82320 5.81190 5.80650 .80000	BETA 5.05010 5.07690 5.09060 5.08378 5.08340 9.08390	CL .36950 .39750 .42390 .46530 .48260 .50840	.06280 .06280 .06180 .05408 .05980 .07600 .07970	.01850 .04900 .01850 .00010 00830 01250

		RUN NO	. 622/ 0	ŘN/L =	3.25 GRAD	DIENT INTER	VAL = -1.0	0/ 4.00			
ALPHAO 14.717 14.688 14.674 14.665 14.668 14.673	0Z 1.874 4.769 9.382 16.975 31.950 46.749 61.783	MACH .59970 .59960 .59980 .59980 .59980 .68020	0X 9.42000 9.2200 8.91570 8.40160 7.37290 6.36980 5.33720	DY 8.37420 8.37710 8.39120 8.39530 8.40610 8.41540 .00000	BETAO -5.17810 -5.17940 -5.18320 -5.18790 -5.20180 -5.20920 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.85110 5.85190 5.84940 5.83980 5.83260 5.81470 5.80610	8ETA 5.08930 5.09400 5.09720 5.08990 5.09040 5.08240 5.09090	CL .63260 .65890 .67590 .69840 .72550 .74780 .60000	CD .13400 .13230 .13500 .14160 .15040 .15560 .15830	CLH .06490 .05510 .03590 .01840 .00630 .00010 08520 .00000

.00000

.00800

GRADIENT



14.651

59.262

**GRADIENT** 

TABLE ATED SOURCE DATA - CARD

-.31438

-.13436

.60020

-.00003

8.37110

.00034

-5.20880

-.00072

.00000

.00000

9.66940

-.00095

-.00675

.00109

.00935

-.00755

PAGE 289 DATE DI DEC 75 (BGN119) ( 20 JAN 75 ) CA20 747/1 01 51 ORBITER DATA PARAMETRIC DATA REFERENCE DATA 9.000 BETAC -5.000 ALPHAC = 1109.0000 IN.XO XMRP SREF = 2690,0000 SQ.FT. 3.000 ELV-18 . .000 ELV-08 = YMRP .0000 IN.YO LREF = 474.8100 IN. HACH .600 ELEVON = 5.000 ZHRF = 375.0000 IN.ZO BREF = 936.6800 IN. PHI .000 -5.000 BETAO = SCALE # .0300 10.000 DΧ 10.000 DY GRADIENT INTERVAL - -1.00/ 4.00 RN/L = 3.24 RUN NO. 826/ 0 CD CLH. DY BETAO PHI ALPHAH BETA CL HACH DX ALPHAO ĐŽ .05110 .00000 9.67640 5.11290 .22340 .03630 -5.17890 .59960 9.45520 8.21890 10.232 -3.158 5.10090 .24960 .03950 .02930 8.24760 -5.19470 .00000 9.67420 9.04460 .59930 10.221 -.170 .26540 .04510 .01450 5.10550 8.25130 -5.20440 .00000 9.67370 0.43850 10.228 4.274 .60060 .00240 .00000 9.67500 5.10510 .32100 .05128 .60080 0.00330 8.24320 -5.21030 9.076 10.086 9.67450 5.09750 .33890 .05430 -.00060 7.61260 8.24420 -5.21170 .08000 .60030 10.098 10.921 -.00590 .06880 .40980 0.24330 -5.22100 .00000 9.66680 5.09620 26.257 .59990 5.50150 10.159 -.00890 0.25650 -5.22860 .00000 9.66440 5.09690 .44950 .07310 .59980 3.31110 41.630 10.305 .00000 .00000 .00000 .08000 .08080 .00000 .00000 .00000 .00000 GRADIENT .00000 RUN NO. 825/ 0 RN/L = 3.22 GRADIENT INTERVAL " -1.00/ 4.00 ELH ALPHAH BETA CL CD PHI DZ MACH DX DY BETAO ALPHA0 .08180 9.69920 5.10990 .49000 .09910 7.90360 8.38630 -5.17870 .00800 .59910 14.588 -.647 .05950 .10230 8.39730 -5.18080 .00000 9.69640 5.69010 .51090 7.50930 14.574 2.288 .59900 9.69580 5.10230 .55480 .10990 .04010 -5.18510 .00000 .60040 6.89610 8.37630 6.896 14.572 5.10288 .60080 .12140 .02490 9.69090 5.84870 8.36390 -5.18680 .00000 .59950 14.589 14.523 .01450 .13600 -5.19440 .00000 9.69180 5.09570 .65990 29.445 .59990 3.80460 8.35910 14.622 9.67480 5.10310 .69650 .14550 .00790 -5.20120 .00000 .59990 1.74040 9.36180 44.416 14.841 .72020 .15210 .00120 5.10360

CA20 747/1 01 SI

ORBITER DATA

(90N120) ( 20 JAN 75 1

Ω	FF	FI	8	CE.	- Du	ıŦ	à

GRADIENT

.00085

-.06713

.00084

.00222

.00000

-.00238

.00035

.00502

.00016

-.00756

### PARAMETRIC DATA

	NEFEREN	CE DAIA							PARAMETRIC	DATA	
	2690.0000 SC			000 IN.XO				ALPHAC .	4.000	BETAC =	-5.000
LREF *	474.8100 IN			00.NI 0000				ELV-18 =	.000	ELV-08 =	.000
BREF *	936.6800 16	i. ZHRP	= 375.0	0000 IN.ZO				EFEADM =	5.000	HACH =	.600
SCALE =	.0300							EETAO =	-5.000	PH1 =	.000
								DX =	.080	BY =	10.000
		RUN NO.	765/ 0	RN/L =	3.26 GRA	DIENT INTER	IVAL = -1.6	00/ 4.80			
ALPHAO	DZ	MACH	DX	DY	BETAG	PHI	ALPHAH	BETA	CL	CD	CEH
10.515	-1.996	.60080	.64350	11.45910	-5.24180	.00000	5.87130	-4.58110	.44090	.07340	.04120
10.469	1.101	.59950	.64030	11.44630	-5.23360	:00000	5.66780	-4.98020	.46850	.07540	.01410
10.487	5.844	.60040	.31530	11.45310	-5.23550	.00000	5.86370	-4.98810	.48130	.07550	.00560
10.491	13.003	.59970	17740	11.46190	-5.23990	.00800	5.85710	-4.98220	.49620	.07710	.08050
10.505	28.256		-1.23080	11.48620	-5.25290	.00000	5.84900	-4.99070	.52130	.08080	08530
10.512	43.053		-2.24980	11.50370	-5.26170	.00000	5.83960	-4.99000	.53970	.09390	00990
10.515	46.935		-2.51800	11.50600	-5.26380	.00000	5.83580	-4.98180	.54150	.08440	01070
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00800
		RUN NO.	768/ 0	RN/L =	3.24 GRA	DIENT INTER	VAL = -1.0	10/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CO	CLH
14.817	.078	.69020	31490	11.36860	-5.21580	.00000	5.90170	-4.98100	.71640	. 16000	.05120
14.790	3. 17 <del>9</del>	.60840	52360	11.37120	-5.20890	.00000	5.89430	-4.97990	.73400	.16950	.02770
14.781	7.513	.60080	02800	11.38430	-5.21010	.00000	5.89240	-4.98870	.73490	.15890	.02160
14.780	9.056	.60090	93650	11.38410	-5.21080	.00000	5.89280	-4.98120	.73550	.15980	.02080
14.776	15.044	. 59940	-1.35410	11.39230	-5.21500	.00000	5.88410	-4.98340	.74000	.15910	.01740
14.778	30.013	.59950	-2.39160	11.42080	-5.22890	.00000	5.86950	-4.99850	.75330	.16330	.00990
14.777	44.971		-3.42780	11.43380	-5.23760	.00000	5.85800	~4.98540	.75410	.16600	.00390
14.777	60.036		<del>-</del> 4.47510	11.45160	-5.24820	.00000	5.85010	-4.98230	.77060	. 16770	60180
	COADIENT	00000	- 00717	DOCC	00000	00000	00070	00070	ADE 00		

DATE BI DEC 75

GRADIENT

TABULATED SOURCE DATA - CA20

PAGE 291 (BGN121) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 01 SI PARAMETRIC DATA REFERENCE DATA BETAC = -5.000 ALPHAC . 0.000 1109.0000 IN.XO XMPP SREF = 2690.0000 SQ.FT. .000 ELV-08 = .000 ELV-IB = YHPP .0000 IN.YO 474.8100 IN. LREF .600 ELEVON = 5.600 MACH 375.0000 IN.ZO ZMRP = 936.6800 IN. BREF = -5.000 PHI .000 BETAO = .0300 SCALE = .000 DY 10.000 DΧ GRADIENT INTERVAL = -1.00/ 4.00 3.25 RUN NO. 766/ 0 RN/L = CLH  $\alpha$ **ALPHAH** BETA CL DY BETAG PHI ĐZ MACH ĐΧ ALPHA0 -4.98270 .02410 .26500 .04640 9.75040 +5.26430 .00000 -.59030 11.55550 .60030 10.296 -3.648 .30650 .05210 .01230 -4.99880 -5.24420 .00000 9.74600 11.51870 -.99740 .60080 10.312 -.557 .00900 -4.98900 . 34230 .05670 9.74400 .00000 11.50050 -5.23340 .60030 -1.63380 4.042 10.352 .00520 .39520 .66280 -4.99020 11.49930 -5.23310 .00000 9.73990 -2.66550 .60030 11.503 10.398 .07200 .00080 9.73480 -4.98150 .44600 .00000 -5.24770 11.52080 .59940 -4.7B130 26.756 10.447 -.00430 -4.97300 .48530 .07810 9.72930 11.53920 -5.25920 .00000 .60020 -6.03220 10.474 41.500 .49430 .07970 -.00640 .00000 9.72760 -4.98040 -5.26270 -7.56360 11.54730 .59970 10.480 46.724 .00000 .00000 .00800 .00000 .00000 .00000 .00088 .00000 .00000 .00000 **GRADIENT** GRADIENT INTERVAL = -1.00/ 4.00 3.24 RN/L = RUN NO. 767/ 0 CD CLH ALPHAN BETA CL PH1 DY BETAO ĐΧ MACH ALPHAO DZ .05110 9.78050 -4.97870 .57650 .12060 -5.22370 .00000 11.43940 .60050 -1.92420 14.680 -1.558 .03920 -4.98750 .59960 .12380 9.77830 .00000 -2.35280 11.42690 -5.20980 .60010 1.597 14.680 .12760 .03300 .62030 .00000 9.77290 -4.98780 -5.20470 -2.94650 11.41730 14.698 5.926 .59990 .02840 . 13440 9.75940 -4.98590 .64760 11.41840 -5.20750 .00000 .60040 -3.98700 13.492 14.707 .01960 -4.98790 .69340 . 14650 11.44460 -5.22150 .00000 9.74920 -6.03709 .59950 28.283 14.735 .72380 .15520 .01170 .00000 9.74110 -4.98370 -5.23100 -8.14790 11.46360 43.430 .59960 14.751 . 15990 .00420 .74010 9.73190 -4.98890 .00000 -10.20510 11.48640 -5.24360 .60040 58.184 14.755 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

(BON122) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 01 51

	REFERENC	E DATA							PARAHETRIC	BATA	
SREF = 2	890.0000 <b>SQ.</b>	FT. XHRP	- 1109.0	1880 IN.XO				ALPHAC =	4.000	DETAC -	.000
	690,0680 SQ. 474.8180 IN.	YHRP		000 IN.YO				ELV-IB -	.000	ELV-08 -	.000
	474.8100 IN. 936.6800 IN.	ZHRP		080 IN.ZO				ELEVON =	5.000	MACH .	.600
<b>O</b>		2184	- 3,5.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				EETAO -	-5.000	FHI =	.020
SCALE =	.0300							<b>-</b> xa	.000	DY •	10.000
		RUN NO	. 781/ 0	RN/L =	3.32 GF	RADIENT INTER	VAL = -1.0	97 4.80			
ALPHAO	02	MACH	DХ	ÐY	BETAD	PHI	ALPHAH	BETA	CL.	CD	CLH
10.533	-1.750	.60020	.83720	10.39810	-5.23780	.00000	5.87650	00910	.45680	.07110	.03270
10.516	1.242	.60000	.63340	10.40180	-5.23580	.00000	5.87280	01120	.47240	.07210	.01520
10.511	5.718	.60020	.32880	10.40050	-5.23570	.00000	5.86530	01460	.48300	.07310	.00730
10.517	13.048	.59950	17620	10.40330	-5.24028	.00000	5.85710	01870	.49780	.07570	.00170
10.529	28.455	.60000	-1.23960	10.41620	-5.25120	.00000	5.84810	01200	.52170	.08340	00490
10.535	43.071	.60080	-2.24820	10.43250	-5.26910	.00000	5.64030	~.01849	.53859	.09370	00960
10.533	47.085	.60070	-2.52230	10.43510	-5.26270	.00000	5.83630	01030	.54140	.08430	01070
10.000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00800	.00800	.60000
		RUN NO	), 764/ 0	RN/L =	3.26 G	RADIENT INTER	VAL = -1.0	10/ 4.00			
ALPHAO	02	MACH	ĐΧ	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH
14.817	. 178	.60040	29330	10.38910	-5.21580	.08080	5.90850	00220	.74170	. 15550	.03800
14.797	3.067	.60070	49760	10.40960	-5.21220	.00000	5.88428	01100	.74330	. 15650	.02680
14.787	7.581	.59930	81630	10.41730	-5.21290	.00000	5.89670	01520	.74210	. 15670	.02170
14.760	15.133	.59990	-1.34110	10.42580	-5.21580	.00000	5.88880	0175D	.74140	.15960	.01700
14.773	29.995	.55930	-2.37300	10.44100	-5.22670	.00000	5.86569	01800	.75180	.16430	.00930
14.775	45.089	.60000	-3.41690	10.45180	-5.23340	.00000	5.85390	01260	.76050	.16710	.00300
14.775	60.069	.60020	-4.45690	10.47390	-5.24560	.00000	5.84420	01110	.76570	. 16910	00210

.00125

.00710

-.07872

60.069

**ORADIENT** 

19.771

.60020

.00010

.00000

-.00149

-.00305

**-.00388** 

.00035

DATE OI DEC 75

TABULATED SOURCE DATA - CAPO

ADDITED DATA

(BGN123) ( 20 JAN 75 )

PAGE 293

			CAZO	747/1	01 SI	90	BITER DATA		(BGN12)	3) (20 JA	1 13 1
	REFERENCE	DATA						F	ARAHETRIC	DATA	
LREF = 479	0.0000 SQ.FT 4.8100 IN. 6.6800 IN.	. XMRP :	.000	00, IN.XO 00, IN.YO 00, IN.ZO				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	8.000 .00D 5.000 -5.000	BETAC = ELY-08 = HACH = PHI = DY =	.000 .000 .600 .600
		RUN NO.	762/ 0	RN/L =	3.28	GRADIENT INTER	VAL = -1.0	07 4.00			
ALPHAO 10.341 10.346 10.375 10.411 10.469 10.498 10.503	DZ -3.605 403 -5.542 -11.472 -26.651 -41.561 -46.845 -3RADIENT	.59950 - .60010 - .60010 - .59920 - .59930 -	1.02000	0Y 10.45990 10.44290 10.41910 10.41120 10.41420 10.42860 10.43080 .00000	9ETA0 -5.2502 -5.2467 -5.2399 -5.2470 -5.2571 -5.2591	00000 00000 00000 00000 00000 00000 0000	ALPHAH 9.74490 9.74600 9.74280 9.73290 9.73260 9.72730 9.72580	BETA 00590 01040 01460 01770 00880 00810 00790 .00000	CL .26840 .38590 .35110 .39470 .44640 .48490 .49520	00 .04350 .04880 .05570 .06130 .07150 .07790 .07960 .80000	CLH .03680 .01660 .01030 .00740 .00170 00370 00590 .00000
		RUN NO.	763/ 0	RN/L =	3.26	GRADIENT INTER	YAL = -1.0	00/ 4.00			
ALPHAO 14.689 14.691 14.699 14.711 14.742 14.754	DZ -1.516 2.914 7.487 13.631 28.443 43.346 58.323 GRADIENT	.60020 .59980 .59930 .59990	GX -1.91560 -2.51930 -3.14680 -3.99010 -6.03760 -8.11400 10.20620 .00000	DY 10.45900 10.4440 10.42920 10.42940 10.44480 10.46770 .00000	-5.214 -5.212 -5.221 -5.229	80 .08000 70 .00000 00 .00000 90 .00000 90 .00080 70 .00080 30 .00000	ALPHAN 9.77730 9.77300 9.76670 9.76730 9.74450 9.73780 9.72950 .00000	BETA 00570 01230 00730 01980 02910 01780 00890 .00000	CL .57720 .60540 .62620 .65080 .69650 .72350 .73590	.12730 .13350 .14630 .15550	CLH .05448 .04070 .03450 .02960 .01990 .01160 .00390 .00000

CA20 747/1 OI SI

## ORBITER DATA

190H1293 ( 20 JAN 75 )

PARAMELIRIC DATA

## REFERENCE DATA

LREF .	2699.0009 SQ.F 474.8109 IN. 936.6869 IN. .0300	YMRP		0 IN.XO 0 IN.YO 10 IN.ZO				ALPHAC * ELV-1B * ELEVON * EETAO * OX *	4.000 .880 5.000 -5.000	BETAC = ELV-08 = HACH = PHI = CY =	5.090 .000 .600 .000
		RUN NO.	769/ 0	RN/L =	3.24 GRA	DIENT INTER	VAL1.0	0/ 4.00			
ALPHAO	ĐΖ	MACH	DX	DY	BETAG -5 20250	PHI	ALPHAH 5.87540	BETA 5.00588	CL .43320	CO .07120	CLH .07340

		RUN N	0. 772/ 0	RN/L =	3.23 GRAI	DIENT INTER	RVAL = -1.0	00/ 4.00			
	GRADIENT	.00000	.00000	.60880	.00000	.00000	.00000	.00000	.00000	,00000	.02000
10.518	46.942	.53360	-2.52780	9.26360	-5.25640	.08880	5.64540		.00000	.00000	.00000
10.514	42.985	.59930	-2.25500	9.26120				4.99920	.54420	.08440	01030
10.514	28.279	.59950			-5.25480	.00000	5.64920	4.99910	.54680	.03360	00900
10.506			-1.23590	9.25270	-5.24690	.00000	5.85360	4.99140	.52510	. 080 <b>70</b>	03350
	13.217	.60020	19490	9.24420	-5.23460	.00000	5.86400	4.99420	.49920	.07600	.00700
10.511	5.643	.60050	.31090	9.24170	-5.22710	.00000	5.67190	4.98430	.47760	.07230	.02120
10.533	1.26'	.60040	.62320	9.23700	-5.21650	.00000	5.87378	5.00280			
10.561	-1.968	.60050	.84334	9.55010	3.60504	,,,,,,,,		C 00000	.45360	.07088	.04689

ALPHAO 14.954 14.915 14.669 14.671 14.657 14.660	DZ .809 4.128 10.592 18.691 33.530 48.582 63.797 GRADIENT	MACH .50000 .59920 .60080 .60050 .60010 .59940	0x 36940 59930 -1.07280 -1.60570 -2.63080 -3.67260 -4.73190 .00000	DY 9.30510 9.32970 9.34180 9.35210 9.36710 9.37470 9.39310 .08000	8ETA0 -5.19510 -5.20000 -5.20770 -5.21430 -5.22520 -5.23120 -5.24340 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAR 5.90150 5.89450 5.89300 5.87640 5.85860 5.84820 5.84160	GETA 4.98800 4.98270 4.98680 4.98090 4.98910 4.98940 4.58840 .00000	CL .70890 .72310 .73630 .74460 .75720 .76590 .76920 .00000	CD .15560 .15290 .15800 .15990 .16420 .16680 .16770 .00000	CLH .08390 .05510 .03070 .02010 .00950 .00250 00260
--------------------------------------------------------------------	-----------------------------------------------------------------------------------	------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------	------------------------------------------------------	-------------------------------------------------------------------------------------	---------------------------------------------------------------------	------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	--------------------------------------------------------------------------

DATE OI DEC 75

GRADIENT

.00032

-.13493

.08437

-.00282

.00000

-.0014B

### TABULATED SOURCE DATA - CA20

1 20 JAN 75 1 747/1 01 51 ORBITER DATA (BGN125) PARAMETRIC DATA REFERENCE DATA 5.000 1109.0000 IN.XO ALPHAC = 8.000 BETAC -2890.0000 SQ.FT. XHRP ELY-18 -.000 ELV-08 -.000 YHRP .0000 IN.YO 474.8100 IN. ZMRP 375.0000 IN.20 ELEVON = 5.000 HACH = .600 EREF = 936.6800 IN. BETAD = -5.000 PHI .000 SCALE . .0300 DΧ .000 ĐΥ 10.880 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 770/ 0 RN/L = 3.23 BETA CD CLH **ALPHAO** ĐZ MACH DX DY BETAO PHI ALPHAH CL. .59990 -.59100 9.18540 -5.19210 .00000 9.73870 5.00480 .27590 .64510 .07220 10.399 -3.4B3 .60040 -1.01940 9.20850 -5.21240 .00000 9.73710 5.08040 .30140 .04740 .04530 10.364 -.364 9.20920 -5.22250 .00800 9.73510 5.00530 .33760 .05330 .02600 -1.62970 10.376 4.846 .59980 -2.68850 10.412 11.707 .59980 9.21350 -5.23110 .00000 9.73290 4.99850 .38580 .06140 .01340 9.72830 -4.73520 9.21380 -5.24280 .00000 4.99510 .44860 .07180 .00340 26.499 .59960 10.454 9.22210 -5.25140 9.72080 4.99590 .46600 .07820 -.00340 -6.81820 .00000 10.479 41.497 .59910 46.758 .59950 -7.55090 9.22410 -5.25460 .00000 9.71940 5.00350 .49850 .07990 -.00530 10.486 . 00000 .00000 .00000 .00000 -00000 .00000 .00000 GRADIENT .00000 .00000 .00000 RUN NO. 771/ 0 3.23 GRADIENT INTERVAL = -1.00/ 4.00 RN/L = CD CLH BETAO ALPHAH BETA CL ALPHAO DZ HACH ĐΧ DY PHI 14.623 -.884 .59960 -2.03290 9.33230 -5.19580 .00000 9.76760 5.01150 .54850 .11500 .10140 -2.41590 9.34470 -5.20380 .08000 9.76340 4.99810 .57760 .11820 .07190 14.797 .60050 1.955 .12360 .05170 9.33420 .08000 9.75890 4.99440 .60650 14.791 6.399 .59990 -3.02280 -5.20750 14.798 14.059 .60070 -4.07020 9.31690 -5.21020 .00000 9.74920 5.00170 .64330 .13300 .03600 9.31700 -5.21010 .00000 9.74410 4.99360 .69290 .14610 .02190 .59990 -6.12930 14.819 28.947 9.32610 -5.22500 .00000 9.73320 5.00170 .72300 .15520 .01210 14.842 43.761 .60020 -8.18550 .74060 .16060 .00380 59.029 .59990 -10.31650 9.34040 -5.23500 .00000 9.72670 5.00260 14.847

-.00472

.01025

.00113

-.01039

PAGE 295

ORIGINAL PAGE IS OF POOR QUALITY

48.212

GRADIENT

10.478

.59980

.00000

7.38180

.60200

1.99180

.00000

-.00550

.00000

			CAZO	747/L	05 21	o	RBITER DATA	ı	(BGH1S	83 t 29 AU	0 75 1
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF = 4	590.0800 SQ.F1 174.8100 iN. 936.6800 IN. .0300	r. xhap Yhap Zhap	00	080 IN.XO 00.XI 000 00.XO				ALPHAC = ELV-18 = ELEVON = EETAO =	4.000 .000 5.000	BETAC = ELV-08 = MACH = PHI =	-5.000 3.000 .600
		RUN NO	. 656/ 0	RN/L =	3.29 GRA	DIENT INTER	VAL = -1.0	DX =	.000	DY =	.000
ALPHAO 10.466 10.459 10.464 10.475 10.481 10.485	DZ -1.096 2.127 6.620 14.115 29.115 44.160 48.200 GRADIENT	MACH .60040 .5920 .60000 .5938 .597 9 .5920 .00000	0X 10.76960 10.55940 10.26250 9.74740 8.71410 7.67070 7.39520 .00000	DY 1.93190 1.94420 1.96080 1.97410 1.99380 2.00190 2.00190	BETAO .02240 .01780 .01060 .00250 00580 00610 00610	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.87110 5.87110 5.85390 5.85590 5.84530 5.84030 5.83410	BETA -4.59100 -4.97690 -4.98600 -4.98600 -4.98800 -4.98750 .00000	CL .41960 .43730 .44980 .46590 .49440 .51070 .51430	CD .09780 .09850 .10050 .10330 .10930 .11140 .11210	CLH .05250 .03350 .03300 .02720 .02010 .01520 .01410 .00000
			CA20	747/1	02 91	0	RBITER DATA		(BCH12	7) (20 J/	N 75 )
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF = 4	690.0000 EQ.F. 474.8100 IN. 936.6800 IN. .0300	T, XHRP YHRP ZHRP	<b>-</b> .00	300 IN.XO 300 IN.YO 300 IN.ZO				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = ELV-08 = MACH = PHI = DY =	-5.00 <b>0</b> 3.000 .690 .000
		RUN NO	. 657/ 0	RN/L =	3.34 GR#	DIENT INTER	VAL = -1.0	00/ 4.60			
ALPHAO	ĐZ	HACH	ĐΧ	ĐΥ	BETAD	149	ALPHAH	ĐETA	CL.	CO	CLN
10.433	-1.293	.59920	10.78030	1.92340	.02690	.00000	5.06290	-4.95760	. 38290	.09310	.04380
10.431	1.607	.59920	10.57160	1.93720	.01910	.00000	5.85170	-4.96380	.40330	.09430	.03190
10.433	6.223	.60000	10.27180	1.94970	.01210	.00000	5.65760	-4.96288	.41990	.09650	.02590
10.444	19.070	.60000	9.73470	1.95260	.08440	.00000	5.65180	-4.95390	.44200	.09950	.02110
10.465	28.827	.59930	8.71920	1.97980	00320	.00000	5.64330	-4.95700	<b>.47</b> 460	.10460	.01630
10.477	43.949	.59940	7.67920	1.99260	00459	.00000	5.83720	-4.97220	.49560	.10950	.01290
		50000		1 00100	_ 00550	00000	6 07600	-6 05410	EUUUU	IUGAL	.ni2nn

-4.95410

.00000

5.03600

.00000

.00800

.00000

.50000

.00000

.10340

.00000

.01200



PAGE 287 TABULATED SOURCE DATA - CA20 DATE 81 DEC 75 ( 20 JAN 75 ) (BCN128) ORBITER DATA CA28 747/1 02 SI PARAMETRIC DATA REFERENCE DATA BETAC -4.000 -5.000 ALPHAC \* 1109.0000 IN.XO XMRP = SRFF - 2690,0000 SQ.FT. 3.000 .000 ELV-03 = ELV-18 = .0800 IN.YO YHRP = LREF = 474.8100 IN. .600 HACH = ELEVON -5.000 375.0000 IN.ZO ZMRP = BREF \* 936.6800 IN. .000 PHI BETAO . .000 SCALE = .0300 20.000 Đ¥ -000 DX = GRADIENT INTERVAL \* -1.00/ 4.00 RN/L = 3.32 RUN NO. 669/ 0 aн CO BETA CL PHI ALPHAH BETAO OY HACH DΧ ALPHA0 DZ .03948 .09140 -4.97720 .35550 5.84610 .02290 .00800 2.80120 .60020 20.78390 10.338 -1.786 .09290 .02530 .38150 -4.96530 .00000 5.64520 2.60850 .01620 20.57030 .59930 1.490 10.333 .01890 .40220 .09500 .00000 5.84260 -4.96280 .00870 2.82240 20.26620 .59930 10.348 5.895 .09780 .01480 -4.97010 .42790 .00000 5.83790 2.64000 .00250 19.75050 .59940 10.360 13.450 .01190 -4.95760 .46490 .10270 .00000 5.83120 -.00400 2.84590 18.72420 28.424 .60060 10.383 .48740 .10640 .00990 -4.97340 .00000 5.02390 17.69220 2.86070 -.00470 .59980 10.396 43.434 .10720 .00980 5.82450 -4.96530 .49350 -.00700 .00000 2.86070 .60010 17.35740 48.251 10.401 .00000 .00000 .00000 .00000 .08080 .00000 .00000 .00000 .00000 .00000 GRADIENT ( 20 JUN 75 ) ORBITER DATA (BGN129) CAED 747/1 02 51 PARAMETRIC DATA REFERENCE DATA .000 4.800 BETAC = ALPHAC = XHRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. ELV-08 -3.000 ELV-18 -.000 YHRP .0000 IN.YO LREF -474.8100 IN. HACH .600 ELEVON -5,000 ZHRP - 375.0000 IN.ZO 936.6800 IN. BREF -.000 .000 PHI BETAO -SCALE -.0300 .000 OY .000 DX GRADIENT INTERVAL = +1.60/ 4.00 RN/L = 3.31 RUN NO. 652/ 0 CLH œ CL PHI ALPHAH BETA **BETAO** DY DX ĐΖ HACH ALPHA0 .04730 .42810 .09530 5.87480 .04740 .08000 .08550 .77380 -.01920 .60030 -.437 10.500 .03910 .09590 .05460 .42820 5.87310 -.01970 .00480 .00000 .56060 2.659 .59970 10.491 .03150 .43960 .09800 5.86650 .03660 .00000 .00350 -.01380 .60030 .25130 7.178 10.491 .45570 .10140 .02610 .05350 5.65330 .00000 -.26210 -.01610 .00270 .59940 10.496 14.694 .02030 .10500 .47940 .04480 .00000 5.84700 -.00610 -.00188 -1.10100 .59930 26.658 10.508 .01920 .03710 .48370 .10590 5.64330 -,00280 .00000 -.00180 .59940 -1.28250 29,527 10.510 .11040 .01480 .50130 5.83550 .04500 -.00350 ,00000 -.00040

.00000

.00000

-.00470

-.00026

.00190

-.00018

5.83480

-.00055

.11100

.00019

.50420

.00262

.04510

.00233

.01370

-.00297

-2.33460

-2.55480

-.05987

.59910

.60070

-.00019

44.750

48.090

GRADIENT

10.521

			CA20	747/1	02 51	. 01	RBITER DATA	<b>.</b>	(BCH12	M 62 1 (E	175 1
	REFERENCE	DATA						F	PARAMETRIC	DATA	
SREF = i LREF = EREF = SCALE =	2699.0000 SQ.FT 474.0100 IN. 936.6800 IN. .0380	. XHRP YMRP ZMP 1	■ .0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-IB = ELEVON = ETAO = OX =	4.000 .000 5.000 .000	BETAC = ELV-08 0 MACH = PHI = BY =	.000 3.000 .000 .000
		RUN NO	. 653/ 0	RN/L •	3.29 GRA	DIENT INTER	VAL = -1.6	90, 4.00			
ALPHAO 14.760 14.743 14.743 14.739 14.741 14.736	02 1.601 4.801 9.200 16.514 31.638 46.575 61.537 GRADIENT	MACH .60030 .60000 .59360 .5990 .59910 .69980 .59920 .00008	DX375906019090970 -1.41430 -2.45160 -3.49040 -4.52810 .00000	DY60820007300057000350 .01100 .01400 .02380	BETAO 00010 00160 00130 00310 00700 00920 01480 .00700	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.90450 5.89740 5.89170 5.89180 5.85960 5.84790 5.84020	62TA .03130 .04580 .04590 .05400 .03740 .04480 .04460	6L .69620 .69080 .69160 .69710 .71190 .72170 .72780 .09080	CD .18340 .18200 .18350 .18710 .19360 .19770 .19930 .60000	CLH .05860 .05280 .04950 .04420 .03630 .03110 .02690 .00000
			CA20	747/1	02 51	0	RBITER DATA		(BGN13	W 02 ) (0	N 75 )
	REFERENCE	DATA						1	PARAMETRIC	DATA	
SREF = LREF = EREF = SCALE =	2690.0800 SO.F1 474.8108 IN. 836.6800 IN. .0300	7. XMRP YMRP ZMRP	.0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-1B = ELEVON = BETAO = OX =	4.000 .000 5.000 .000 10.000	BETAC = ELV-08 = HACH = PHI = DY =	.000. 000. 000. 000.
		RUN NO	. 661/ 0	RN/L =	3.30 GR/	DIENT INTER	RVAL = -1.0	80/ 4.00			
ALPHAO 10.416 10.413 10.418 10.427 10.446 10.459	07 -1.295 1.696 6.294 13.796 28.832 43.286 48.115	MACH .59950 .59950 .59950 .59900 .59950 .59950	0X 10.81230 10.60770 10.29140 9.77720 8.74400 7.71030 7.41160	DY 00590 00370 0080 00180 .00530 .00770	8ETAO .00540 .00510 .00360 .00220 00260 00200	PHI .08080 .00080 .00080 .00080 .00080 .00880 .00880 .00888	ALPHAH 5.86550 5.86550 5.86130 5.6460 5.64380 5.83270 5.83590	BETA .00120 .00080 .00010 .00730 00150 .00640	CL .39900 .40930 .42310 .44380 .47620 .49710 .50060	CD .09170 .09250 .09480 .09870 .10450 .10840	CLH .03960 .03118 .02578 .02110 .01610 .01300 .01180

ORIGINAL PAGE IS OF POOR QUALITY

TABULATED SOURCE DATA - CA20

DATE OF DEC 75 (900130) ( 20 JUN 75 1 ORBITER DATA 02 51 CAZO 747/1 PARAMETRIC DATA REFERENCE DATA .000 4.000 BETAC = ALPHAC . 1109.0000 IN.XO 2690.0000 SQ.FT. XMPP 3.000 .080 ELV-OB -ELV-IB = .0000 IN.YO YMRP 474.8100 IN. LREF 5.000 HACH .600 ELEVON = 375.0000 IN.20 ZMRP 936.6800 IN. BREF .000 BETAO = .000 PHI .0300 SCALE . .000 10.009 DY ĐΧ GRADIENT INTERVAL - -1.00/ 4.00 3.31 RN/L = 659/ 0 RUN NO. œ CLM BETA CL. ALPHAH DY BETAO PH! HACH DΧ ĐΖ **ALPHAO** .05140 .16390 5.09650 -.01400 .66040 -.00220 .00000 .00240 9,49420 1.473 .59920 14.654 .04910 . 16410 .00788 .66120 -.00288 .00000 5.89380 -.00770 .59970 9.28000 4.559 14.652 .66860 .16830 .84510 -.00040 .00000 5.86430 -.00540 -.00190 8.97090 . 60080 9.090 14.654 .04030 .17420 .69080 .00000 5.87540 -.00060 -.00280 -.00110 8,45720 .59930 16.527 14.654 .03410 .00650 .70840 . 18390 .00000 5.88080 -.00790 7,42330 .01230 .59920 31.535 14.662 . 18970 .02990 .71450 -.00160 .00000 5.85640 .01520 -.00730 6.38510 46.582 .60060 14.669 .19200 .02640 .60530 .72256 5.84130 -.01170 .00000 .02020 5.35300 .59930 61.500 14.666 .00000 .00000 . 00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000 (BGN131) ( 20 JAN 75 ) ORBITER DATA C 4 20 747/1 02 51 PARAMETRIC DATA REFERENCE DATA .000 BETAC = ALPHAC = 4.000 1109.0000 IN.XO XMRP = 2690.0000 SQ.FT. ELV-08 -3.000 ELV-18 . .000 YMRP .0000 IN YG 474.8100 IN. LREF = .600 HACH . ELEVON = 5.000 375.0000 IN.20 923.6800 IN. ZHRP = BREF = .000 .000 PHI BETAO . .0300 SCALE = .000 20.000 DY DX GRADIENT INTERVAL - -1.00/ 4.00 RUN NO. 665/ 0 RN/L = 3.29 CD Q.H BETA CŁ **ALPHAH** BETAO PHI MACH DX ĐY **ALPHAO** ΘZ 09020. .03019 .37550 01800. .00000 5.85580 .01070 20.75990 -.01360 -1.157 .60020 10.344 .02410 .00760 .38740 .09130 .00000 3.85790 .00820 -.01080 20.57800 1.504 ,60090 10.344 .01970 .08670 .40590 .09350 5.85780 .00000 .00820 20.24040 -.01160 .60080 6.352 10.359 .42930 .09680 .01550 .00620 5.84970 -.00940 .00660 .80000 19.74450 .60090 10.371 13.612 .10300 .01220 .46550 .00000 5.03920 .01320 .00100 -.00410 18.70630 10.391 28.736 .59970 .10716 .01060 5.83580 .00580 .48970 .00000 .00120 .00220 17.66210 .59970 43.809 10.408 .10810 .01010 .08580 .49310 5.03690 .00520 .00030 .00000 17.34990 .59950 48.295 10.469 .00000 03040. .00000 .00000 .00800 .00000 .00000 .00000 .00080 **GRADIENT** .00000

PAGE 299

(BONISI) ( 20 JAN 75 )

CA20 747/1 02 S1

.00000

.00000

.00800

GRADIENT

.00800

.00000

	REFERENC	E DATA							PARAHETRIC	DATA	
SREF = 1 LREF = BREF = SCALE =	2699.0802 SQ. 474.8100 IN. 936.6800 IN. .0300	YMRP	• .08	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = ELV-18 = ELEVON = EZTAO = DX =	4.000 .000 5.000 .000 20.000	BETAC = ELV-08 = MACH = PHI = DY =	3.000 3.000 .000 .000
		RUN NO.	686/ 0	RN/L -	3.30 GRAD	DIENT INTER	VAL = -1.0	0/ 4.00			
			рх	DY	BETAO	PHI	ALPHAN	ATZB	CL.	CD	CLH
ALPHAO		MACH	19.36720	00590	.00370	.00000	5.89270	00740	.63340	. 15500	.04540
14.553	1.265	.60070		01280	.00290	.00000	5.69100	.00760	.63700	. 15510	.84390
14.561	3.972	.59978	19.17960 18.850BD	01360	.00120	.00030	5.87500	.00580	.64960	.16640	.03960
14.556	0.605	.60090	18.32510	01260	.00040	.00000	5.05280	.01380	.66650	.16750	.03580
14.572	16.457	.60070	17.27880	01950	00270	.00000	5.85150	.00560	.69460	.17860	.03050
14.597	31.737	.59980	16.26130	.00240	00300	.00000	5.64570	.01340	.70640	.18600	.02770
14.590	46.430	.60030 .60010	15.24460	.01090	00388	.00000	5.64000	.01330	.71540	.18960	.02530
14.592	61.104 GRADIENT	60037	06931	00270	00030	.00000	00063	.00554	.00133	.00004	00055
						_			(96N13	a. 430 u	ua 75 ≯
			CYSO	747/1	02 51	O	RBITER DATA	)	(80412	e: 1 eu 19	NI 13 1
	REFERENC	E DATA							PARAMETRIC	DATA	
200	2690.0000 SQ.	.FT. XMRP	<b>=</b> 1109.00	OX.NI GOI				ALPHAC =	0.000	BETAC =	.000
	474.8100 IN			00 IN.YO				ELV-18 =	.000	ELV-08 *	3.000
LREF =	926.6800 IN	-		70 IN.20				ELEVON *	5.000	HACH =	-600
C14E1	.0308	. 2(#/)-	- 3/3.00	,,,,,,				BETAO =	.000	PHI =	-600
SCALE =	.8300							DX -	.000	DY =	.000
		RUN NO	. 655/ 0	RN/L =	3.29 GRA	DIENT INTER	RVAL = -1.0	9.00			
ALFHAO	DZ	HACH	DX	ÐY	BETAG	PHI	ALPHAR	BETA	CL	co	CLH
10.325	-3.370	.60020	-,58580	01840	.00440	.00000	9.73250	.05010	.23640	.07140	.05018
10.339	-3.370 284	.59980	-1.00620	02020	.00540	.00800	9.73490	.04910	.26580	.07490	.04230
10.359	4.265	.59930	-1.62680	01390	.00340	.08088	9.73230	.04020	.30020	.07970	.03670
10.393	11.674	.59950	-2.64370	01290	.00270	.00080	9.72790	.03930	.34540	.0B710	.03190
10.393	26.974	.60050	-4.76500	08550	00210	.00000	9.72060	.04650	.41380	.09830	.02550
10.467	41.540	.60090	-6.84130	00280	09150	.00000	9.71560	.03910	.45700	.10530	.02030
10.499	47.907	.59980	-7.67290	.00000	00430	.00800	9.71420	.64678	.46830	.10730	.01790

ORBITER DATA

.00000

.00000

.00000

.00000

PAGE 381 DATE DI DEC 75 TABULATED SOURCE DATA - CARD (BGN132) ( 20 JAN 75 ) ORBITER DATA 747/1 02 51 PARAMETRIC DATA REFERENCE DATA 8.000 BETAC \* .000 ALPHAC = 2690.0000 SQ.FT. XMRP \* 1109.0000 IN.XO SREF = ELY-18 = .000 ELY-08 = 3.000 YMRP OY.NI 0000. 474.8100 IN. .600 ELEVON = 5.000 HACH . = 375.0000 IN.ZO BREF -936.6800 IN. ZHRP .000 BETAO -.000 PHI SCALE . .0300 .000 .000 DY . = DX GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 654/ 0 RN/L = 3.27 CLH ĐΥ BETAO PHI ALPHAH BETA CL CD ALPHAO ΟZ HACH DX .00090 .00000 9.77180 .04180 .53620 .13880 .07638 .59930 -1.94798 -.01490 14.639 -1.095 .55360 .14250 .06801 .00000 9.77590 .04040 -2.34740 -.01540 .00840 1.805 .59900 14.640 . 14920 .05020 .64750 .57770 -2.98170 -.01730 -.00088 .00000 9.76190 14.651 6.322 .59930 9.75189 .03900 .60700 .15770 .05450 -.00120 .00000 .59920 -4.00010 -.01860 13.867 14.669 .17370 .65730 .04440 -.01170 -.00608 .00000 9.73820 .65370 28.918 .59940 -6,07590 14.700 -.00650 .00000 9.72610 .64610 .68370 .18470 .03750 .00140 43.759 .60060 -8.13400 14.717 .70080 .19010 .03160 .00000 9.72190 .03680 -10.22410 .01690 -.0125014.720 58.717 .59920 .00000 .00000 .00000 .00000 .00800 .00000 .00000 .00800 .00000 GRADIENT .00000 (BGN133) 1 20 JAN 75 1 CAZD 747/1 02 51 ORBITER DATA PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 6.000 BETAC = 1109.0000 IN.XO XHRP = 2690.0000 SQ.FT. ELV-IB = .000 ELV-08 = 3.000 474.8100 IN. YMRP .0000 IN.YO LREF ELEVON = 5.000 HACH .600 ZMRP 375.0000 IN.ZO BREF = 936.6900 IN. .000 BETAO = .000 PHI SCALE = .0300 10.000 DY .000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 658/ 0 RN/L = 3.32 CO CLH BETA CL DY BETAO PHI ALPHAH **MACH** DX ALPHAO DZ .03330 9,73350 -.00380 .20990 .06890 .59930 9.46660 -.09230 .00660 .00000 10.250 -3.341 9.73400 .00310 .23770 .07160 .02690 -.00670 .00710 .08080 9.04960 -.279 .60070 10.261 .02320 .00000 9.73010 .00210 .27040 .07590 -.00380 .00540 10.285 4.305 .60080 8.41940 .31650 .08260 .02080 -.00178 .00420 .00000 9.72910 .00100 .60090 7.39060 11.768 10.320 .01820 9.72150 .00810 .38930 .09360 .00370 -.000B0 .00000 5.31340 10.383 26.778 ,59960 .01590 .00000 9.71970 -.00690 .43620 .10120 41.918 .60030 3.20170 .01180 -.00050 10.431 .10380 .01480

.60060

.00000

10.441

48.647

GRADIENT

2.26430

.00000

.01190

.00000

-.00240

.00000

.00000

.00000

9.71860

.00000

.00070

.00000

.45060

.00000

.00000

.01050

.00000

.10180

000000.

.44370

c0000.

(BGN133) ( 20 JAN 75 )

.00910

.00000

9.72110

.00000

.00000

.00000

.00070

.00000

-.00190

-.00420

.00940

.00000

.60080

.60060

.00000

13.75840

12,19640

.00000

38.211

49.390

GRADIENT

10.297

10.347

DATE OI DEC	75	PUPACELLA.			100				(BGN133	اللل 20 يا	75 )
			CAZO	747/1	02 S1	OR	BITER DATA		Thousan		
								F	ARAPETRIC!	DATA	
	REFERENCE	DATA								BETAC =	.600
				0 IN VO				ALPHAC =		ELV-08 =	3.000
SREF = 289	90.0000 <b>SQ.F</b> 1	XHRP	- 1109.088	0 114.70				ELV-18 =			.600
	74.8100 IN.	YHRP	.000	0 IN.YO				ELEVON -		- pro-	.000
	36.6800 IN.	ZMRP	<b>375.600</b>	0 IN.ZO				EETAO =	,0.00	-	.000
SCALE *	-0300				•			ox -	10.000	DA -	•000
				RN/L =	3.29 GRA	DIENT INTERV	/AL = -1.0	07 4.00			
		RUN NO.	660/ 0	HUAVE -	J.65					••	CLH
					BETAO	PHI	ALPHAH	BETA	CL	CO	.05900
AL PHAO	DZ.	MACH	DX	DY	.00250	.00000	9.76000	08500	.48420	.12660	05430
14.520	-1.391	.60010	0.03730	.00340	.00150	.00000	9.75650	00550	.50050	.12900	04860
14.524	1.080	.59990	7.69910	.00410	.08650	.00000	9.75340	.00920	.53060	.13580	.84510
14.540	6.153	.59910	7.00390	00180	00040	.00000	9.74660	.01620	.56880	. 14470	.03910
14.567	13.465	.59920	6.00060	00680	00720	.00000	9.73550	09039	.63150	. 16210	.03420
14.611	28.593	.59930	3.91600	.00730		.00000	9.72810	.00760	.65800	. 17350	
14.634	43.596	.59940	1.83370	.00150	00600	.00080	9.72500	.00048	.69090	.18120	.02980
14.648	59.448	.60020	23670	.01520	01150	.00000	.00000	.00000	.00000	.00000	.00000
14.610	GRADIENT	.68888	.00000	.00000	.00000	.00000	******				
			CAZO	747/1	02 S1	0	RBITER DAT	A	(BGN13	H) (20 J	N 75 1
			CVED	,,,,,					PARAHETRIC	: DATA	
	REFERENCE	DATA								BETAC =	.008
				00.או ממו				ALPHAC "	8.000	ErA-08 =	3.000
	690.0080 <b>50.</b> 6	T, XHRP		08:NI 08:	·			ETA-18 =	.000	HYCH =	.600
LREF =	474.8100 IN.	YMRP						EFEADM =	5.000		.000
BREF =	936.6800 1N.	ZMRP	<b>375.</b> 00	100 IN.ZO				BETAO =	.000		.000
SCALE =	.0300							DX =	20.000	DY =	.000
			cc04 0	RN/L =	3.28 GF	ADIENT INTE	RVAL = -1	.80/ 4.08			
		RUN NO	. 668/ 0	(UNE -						60	CLH
				54	DATEB	PHI	ALPHAH		CL	CO	.02320
ALPHAO	DZ	HACH	ΩX	DY		.00000	9.73010	.01050	.19620		.01310
10.184	-3.785	.59970	19.58200	01190		.00000	9.73130		.23450		
10.154	.797	.60000	18.95340	01600		.00000	9.72960		.2831		.01060
10.157	9.220	.55910	17.92710	00760		.00800	9.72530		.36190		.01120
• • • -	23.195	.60060	15.84870	00440			9.72090				.01110
10.297	23.122		FC01-0	- 0075	.00070	.00000	A. 15000	, ,,			. กา <i>ก</i> รถ



DATE OI DEC 75

TABULATED SOURCE DATA - CARD

PAGE 303

			CYSO	747/1	02 51	į	ORBITER DAT	A.	(BGKI)	34) (20J	JUH 75 )
	REFERENCE	DATA							PARAHETRI	DATA	
SREF = LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	T. XHRP YHRP ZHRP	0	000 IN.XO 000 IN.YO 000 IN.ZO	·			ALPHAC = ELV-18 = ELEVON = BETAO = OX =	8.000 .000 5.000 .000 20.000	BETAC = ELV-08 = HACH = PHI = DY =	.000 3.000 000 .000 .000
		RUN NO	. 667/ 0	RN/L =	3.29 GRA	DIENT INTER	RVAL = -1.0	10/ 4.00			
ALPHAO 14.434 14.439 14.456 14.462 14.529 14.557 14.572	0 DZ -1.978 1.123 5.657 13.159 28.036 42.826 57.824 GRADIENT	MACH .60080 .59910 .60090 .59930 .59980 .60040 .60030	DX 18.6603D 17.63650 17.01440 15.98070 13.92490 11.67180 9.78330 .66000	DY004500030000600006900074000890 .00220	BETAO .00860 .00720 .00540 .00360 00290 00280 00830 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAR 9.75680 9.75390 9.75090 9.74550 9.73940 9.73310 9.72650 .00000	BETA .00220 .00130 .00810 .00740 .01440 .01490 .00760	CL .45570 .47970 .50600 .54650 .61240 .65530 .68070	CD .12060 .12460 .12980 .13870 .15510 .16760 .17580	CLH .04590 .03890 .03599 .03460 .03310 .03020 .02760
			CYSD	747/1	02 51	C	RBITER DATA	•	1BGN13	(20 J	AN 75 1
	REFERENCE	DATA							PARAHETRIC	DATA	
SREF =   LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	1. XMRP YHRP ZMRP	00	080 IN.XO 080 IN.YO 080 IN.ZO				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = ELV-08 = MACH = PHI = DY =	-5.000 3.000 .600 .000
		RUN NO.	. 728/ 0	RN/L =	3.27 GRAI	DIENT INTER	RVAL = -1.0	0/ 4.00			
ALPHA0 10.520 10.517 10.515 10.523 10.531 10.541	DZ -1.696 1.116 5.425 13.256 28.048 43.296 GRADIENT	MACH .59940 .60850 .60030 .60010 .59920 .60080 .60000	0X .87430 .68300 .39860 ~.14640 ~1.15190 ~2.18980 .00000	DY 11.02640 11.02080 11.02730 11.04010 11.05810 11.08330 .00800	BETAO .03050 .03090 .02690 .01690 .00140 00620 .00800	PH1 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.82670 5.82390 5.81750 5.81350 5.80280 5.79360 .00000	BETA -4.95860 -4.95160 -4.96100 -4.94970 -4.96350 -4.96030 .00000	CL .45300 .45640 .46200 .47480 .49600 .51390	CD .10270 .10250 .10280 .10460 .10860 .11180	CLH .03790 .03400 .03110 .02780 .02250 .01770

DAIL OF SEC											
			CY50	747/1	12 S0	•	ATAD RETIER		190113	8) (S0 7)	UH 75 1
	REFERENCE	DATA					·		PARAHETRIC	DATA	
	(AC) CINTIANT	D.1.1.1							•		
	590,0000 SQ.F1	. XHRP	= 1109.00	00 IN.XO				ALPHAC =	4.000	BETAC =	-5.000
		YMRP		000 IN.YO				ELV-IB -	.020	ELV-OB *	3.000
	474.8100 IN.	ZHRP		000 IN.ZO				ELEVON =	5.000	HACH =	.608
	936.6880 IN.	21 #12	- 3,5.0.	,00 ,,,,,				BETAD =	.000	PHI =	.000
SCALE =	.0308							DX =	10.000	DY =	10.000
		RUN NO.	732/ 0	RN/L •	3.26 GR	ADIENT INTE	RVAL = -1.0	10/ 4.00			
	OZ	MACH	ĐΧ	DY	BETAO	PHI	ALPHAH	DETA	CL	CD	CLH
ALFHAO		.59980	10.86788	11.92090	.02560	.00000	5.85030	-5.00450	.41230	.09750	.03100
10.431	-2.314	.68050	10.62870	11.91570	.02650	.00000	5.84850	-4.99710	.42220	.09800	.02590
10.429	1.288	.60040	10.32740	11.92110	.02320	.00000	5.84590	-5.00650	.43190	.09840	.02370
10.436	5.568	.60090	9.82710	11.92890	.01650	.00000	5.83690	-5.00380	.44930	.10040	.02190
10.442	[2.949	.60060	B.77300	11.95600	.00030	.00000	5.83260	-5.00920	.47840	.10480	.01850
10.461	28.270	.60010	7.73500	11.95800	00600	.00000	5.22690	-5.08680	.49810	.10850	.01500
10.477	43.283 47.056	.59970	7.47070	11.97270	09720	.00000	5.82790	-5.01380	.50190	.10940	.01390
10.478	GRADIENT	.00000	.00300	.00000	.00000	.08880	.00000	.00000	.00000	.00000	.00000
	CHADIEN		102000								
			CA2B	747/1	02 51	,	ORBITER DATA	۸.	(BGN13	17) (20J	W 75 )
	REFERENCE	ATAG							PARAHETRIC	: DATA	
				000 IN.XO				ALPHAC =	4.000	BETAC =	.000
	690.0000 <b>50.F</b>			000 IN.XO				ELY-18 =	.000	ELV-00 -	3.000
_,,_,	474.8100 IN.	YMRP						ELEVON =	5.000	HACH =	.600
-,	936.6880 IN.	ZMRP	= 375.0	888 IN.ZO				BETAO -	.080	PH] =	.000
SCALE =	.0300							DX =	.000	DY =	19.000
		RUN NO	. <i>727/</i> 0	RN/L =	3.35 G	RADIENT INTE	RVAL = -1.	00/ 4.00			
		MACH	ĐΧ	DY	ĐETAO	PHI	ALPHAH	BETA	CL	CD	CLH
ALPHAO	DZ		.8854 <b>0</b>	9.98370		.00000	5.83340	.03160	.45030	.09900	.04464
10.539	-1.720	.59990	.68770	9.97540		.00000	5.83250	.02160	.45460	.09920	<i>0</i> 9850.
10.532	1.145	.59910	.38650	9.97520		.00000	5.82510	.01060	.46230	.10070	.03430
10.533	5.590	.60050	13250	9.98060		.00080	5.81720	00130	.47540	.10350	.02950
10.535	13.225	.60040	-1.1633B	9.99290		.00000	5.88900	.08080	.49840	.10830	.02290
10.542	28.323	.60840	-	10.00810		00000.	5.79920	08580	.51410	.11170	.01780
10.549	43.196	.60058	-2.17880	10.00010		.00000	.00800	.00000	.00000		.00000
	GRADIENT	.00000	.00000	. 60801	, .60000	.00000					

PAGE 305 TABULATED SOURCE DATA - CA20 DATE OF DEC 75 1 20 JAN 75 1 (BGN138) ORBITER DATA CA20 747/1 02 S1 PARAMETRIC DATA REFERENCE DATA .000 BETAC . ALPHAC = 4.000 = 1109.0000 IN.XO XMRP SREF = 2690.0000 SQ.FT. 3.000 .000 ELV-08 = ELV-18 = .0000 IN.YO 474.8100 IN. YHRP .600 HACH 5.000 ELEVON = ZHRP = 375.0800 IN.ZO BREF = 936.6800 IN. .000 BETAO -.000 PHI .0390 SCALE = 10.000 10.000 DY ĐΧ GRADIENT INTERVAL = -1.00/ 4.00 3.29 RUN NO. 731/ 0 RN/L = CD CLH ALPHAH BETA CL BETAO PHI DY MACH DX **ALPHAO** DZ .03570 5.85620 .06930 .41480 .09410 .00000 .01980 .60039 10.85750 9.96490 -1.917 10.438 .42390 .09480 .03020 5.85440 .05880 .00000 9.95920 .02020 10.63520 .60066 1.309 10.439 .02660 .09600 5,85330 .07270 .43370 .01960 .00000 9.95380 10.33640 5.640 .60020 10.441 .45080 .09890 .02340 5.84330 .06110 .01540 .00000 9.83100 9.98840 .60080 10.446 13.099 .01880 .10420 .07078 .47910 .00380 .00000 5.8368D 9,96980 8.79230 10.464 20.151 .60020 .01500 .05640 .49910 .10830 5.82780 -.00320 .00000 9.98720 43.272 .59990 7,75180 10.475 .10900 .01370 .50250 .06460 .00000 5.82660 9.98650 -.00500 7.49089 .59910 47.051 10.474 .80000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT 1 20 JAN 75 1 (BGN1391 ORBITER DATA 02 51 747/1 CASB PARAMETRIC DATA

	REFERENCE	DATA			PARAMETRIC DATA						
SREF = 6 LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	YMRP	00	80 IN.YO EI 00 IN.ZO EI 80			ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = ELV-OB = HACH = PHI = DY =	5.000 3.000 .600 .000 10.000	
		RUN NO.	729/ 0	RN/L =	3.25 GRA	DIENT INTER	RVAL = -1.0	10/ 4.08			
ALPHAO 10.550	DZ -1.816	HACH .60090 .59920	DX .88480 .67080	0Y 8.78140 8.78380	BETAO .04600 .03380	PHI .00000 .00000	ALPHAH 5.83180 5.82790	86TA 5.12510 5.11980	CL .44960 .45430	CD .09750 .09620	CLM .05630 .04710

.02850

.02180

.00820

.00080

.00000

.00000

.00000

.00000

.00000

.00000

5.82240

5.B1730

5.80400

5.79690

.00000

.10080

.10360

.10870

.11190

.00000

.46360

.47740

.50120

.51680

.00000

5.16560

5.69230

5.09540

5.10330

.00000

.04000

.03290

.02440

.01830

.00000

.37070

-.13060

-1.16640

-2.19520

.00000

8.78850

8.79650

8.60860

8.81680

.00000

.60090

.59980

.59940

.60000

.00000

1.291

5.717

13.051

20.194

43.343

GRADIENT

10.536

10.535

10.534

10.539

.00000

.00000

			CAZD	747/1	02 51		RBITER DATA		(83814)	D) (50 T)	N 75 1
REFERENCE DATA								PARAMETRIC	DATA		
cocc 2	690.0000 <b>50.</b> F	T. XHRP	- 1109.00	080 IN.XO				ALPHAC =	4.000	BETAC .	5.008
	474.8100 IN.	YHRP		000 IN.YO				ELV-18 =	.000	ELV-08 =	3.000
	936.6800 IN.	ZMRP		000 IN.ZO				ELEVON =	5.000	HACH =	.600
SCALE =	.0300	2.110	_ 4,5,4,					BETAO -	.000	PHI =	.000
JUNES -	,0300							DX =	10.000	DY -	19.000
		RUN NO	. 733/ 0	RN/L =	3.26 GRAI	DIENT INTER	NAL = -1.0	10/ 4.00			
ALFHA <b>O</b>	DŻ	HACH	DΧ	DY	BETAO	PHI	ALPHAH	BETA	CL	co	CLH
10.454	-1.821	.60040	10.83530	7.94520	.03540	.00000	5.85460	5.01710	.41050	.09020	.04560
10.451	1.281	.60080	10.62330	7.94600	.03110	.00800	5.85280	5.01310	.42850	.09180	.03890
10.450	5.640	.60050	10.32500	7.95330	.02550	.00000	5.84960	4.99980	.43320	.09450	.03220
10.454	13.081	.60000	9.81810	7.95780	.01940	.00000	5.84150	4.99280	.45250	.09870	.02640
10.489	28.314	,60089	8.77030	7.96820	.00680	.00000	5.83440	4.89560	.4B180	.10470	.02020
10.478	43.187	.60080	7.74450	7.97620	.00050	.00000	5.82840	4.99600	.50060	.10960	.01570
10.479	47.015	.60640	7.47410	7.97890	<b></b> 00120	.00000	5.83180	4.99630	.50420	.10350	.01450
,	GRADIENT	.00000	.00000	.00800	.00000	.00000	.00000	.00000	.00000	.00000	.00000
			CVSO	747/1	01 S1	(	CRBITER DATA		(BGN14	t) ( 20 J/	W 75 1
	REFERENCE	E DATA							PARAHETRIC	DATA	
								ALPHAC =	4.000	BETAC =	.000
	:690.0000 <b>50.</b> 1			OX.N1 000				ELV-18 =	10.000	ELY-08 =	13.000
	474.8100 IN.	YHRP		000 IN.YO				ELEVON =	5.000	HACH =	.600
	936.6800 IN.	ZMRP	= 375.0	000 IN.ZO				BETAO =	.000	PHI =	.000
SCALE =	.0300							DX =	.088	DY =	.000
		RURI NO	. 707/ 0	RN/L =	3.25 GRA	DIENT INTE	RYAL = -1.0	00/ 4.00			
ALPHAO	DZ	HACH	DΧ	DY	BETAO	PHI	ALPHAH	BETA	CL	co	CLH
10.523	-1.884	.60080	.67920	01420	.01180	.00000	5.83190	.00950	.40640	.08160	.06800
10.504	.978	.59910	.68440	01200	.01100	.08080	5.83240	.00020	.42280	.08090	.04940
10.501	5.523	.59930	.37580	01350	.01060	.00000	5.82540	.90740	.43760	.08220	.03980
10.501	13.055	.53950	13550	00840	.00810	.00000	5.81690	00060	.45840	.08430	.03020
10.516	28.002	.59950	-1.15670	00310	.00260	.00000	5.88490	.00670	.48730	.08890	.0214 <b>0</b>
10.310		50000	2 1000	00060	00280	ดดดภก	5.79720	00120	.50530	.09180	.01550

00000.

.00000

.00060

.00000

-2.18400

.00000

.59980

.00000

42.970

GRADIENT

10.523

.00280

.00000

5.79720

.00000

-.00120

.00000

.50530

**DATE 01 DEC 75** 

TABULATED SOURCE DATA - CA20

PAGE 307

			CAZO	747/1	01 51	0	RBITER DATA		(BGN141	VL 03 1	N 75 1
	REFERENCI	E DATA							PARAHETRIC	DATA	
LREF =	590.0000 SQ.1 474.8100 IN. 935.6800 IN. .0300	FT. XMRP YMRP ZMRP	<b>.</b> 08	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = ELV-1B = ELEVON = BETAO = OX =	4.000 10.000 5.000 .000	BETAC = ELV-08 = HACH = PHI = OY =	.000 13.000 .600 .000
		RUN NO.	708/ 0	RN/L =	3.19 GRAD	DIENT INTER	VAL = -1.00	0/ 4.00			
ALPHAO 14.811 14.784 14.771 14.765 14.762 14.773	DZ .024 3.645 7.498 14.984 29.993 45.117 GRADIENT	MACH .60020 .59940 .59900 .60030 .59970 .60060	DX 26990 47840 78610 -1.29790 -2.32360 -3.36230 06903	DY01340011400117000550 .00060 .00065	BETAO .00790 .00750 .00750 .00470 .00060 00040	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAW 5.86260 5.85980 5.85370 5.83950 5.81920 5.80890 00093	BETA 00760 00050 00070 00799 00140 00140	CL .67620 .68460 .69070 .69980 .71900 .73030 .00278	CD .16330 .16059 .16130 .16510 .17090 .17480	CLH .08230 .06360 .05360 .04320 .03170 .02480 d0819
			CA20	747/1	01 51	c	RBITER DATA		(BGN14	5) (50 m	UX 75 )
	REFERENC	E DATA							PARAHETRIC	DATA	
LREF =	690.0000 SQ. 474.8100 IN. 936.6900 IN. .0300	YHRP	00	000 IN.XO 180 IN.YO 180 IN.ZO				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.000 -10.000 5.000 .000	ELV-OB = HACH = PHI = DY =	.000 -7.000 .600 .000
		RUN NO	. 709/ 0	RN/L =	3.26 GRA	DIENT INTER	RVAL = -1.0	0/ 4.00			
ALPHAO 10.510 10.492 10.489 10.491 10.501	0Z -2.321 .755 5.227 12.022 27.760 42.754 GRADIENT	MACH .59970 .59940 .60050 .60020 .60030 .59920	DX .91020 .70150 .40050 11430 -1.13010 -2.15880	DY018300133901330010300034000220 .00000	BETAO .01330 .01170 .01100 .00900 .00300 .00320 .00000	PHI .08080 .08080 .08080 .08080 .00800 .00800	ALPHAH 5.87430 5.87190 5.86690 5.85660 5.84560 5.84080	BETA 00070 00110 00169 00190 .00540 .00530	CL .39190 .41059 .42760 .44760 .47920 .49790	.07860 .07810 .07890 .08170 .08660 .09000	CLH .07460 .05340 .04140 .03270 .02270 .01660 .00000
		RUN NO	. 710/ 0	RN/L =	5.22 GRA	DIENT INTE	RVAL = -1.0	10/ 4.00			
ALPHAO 14.880 14.855 14.843 14.833 14.832 14.832	0Z .715 3.826 8.214 15.630 30.666 45.837 GRADIENT	HACH .59990 .60000 .59990 .59920 .59930 .60070	0X 33240 54550 64750 -1.36850 -2.37646 -3.41720 06982	DY 01950 01550 01270 00290 .00350 .00129	BETAO .00830 .00790 .00700 .00540 .00046 .00010	PHI .08000 .08000 .08000 .00000 .00000 .00000	ALPHAR 5.90190 5.89770 5.89190 5.67920 5.84980 5.84980	8ETA 00850 60950 00240 00950 00250 00253	CL .65220 .65880 .67490 .66550 .70630 .71970	.15910 .15769 .15840 .16189 .16820 .17250	CLH .09410 .06690 .05680 .04530 .03310 .02610

OF POOR QUALITY

CA20 747/1 O1 51

ATAC REFLERO

(BGN143) ( 20 JAH 75 )

ERENCE	

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO LREF = 474.8100 IN. YMRP = .0000 IN.YO EREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO SCALE = .0300

ALPHAC		4.500	BETAC	•	.000
RUO-U		15.000	RUC-L	-	15.000
ELEVON	•	5.000	ALLRON	=	.000
BETAO	-	.000	PHI	•	.000
ΠX		coo.	BY	•	.000

PARAMETRIC DATA

RUN NO. 711/0 RN/L = 3.28 GRADIENT INTERVAL = -1.60/ 4.00		
ALPHAO OZ MACH UX 07 BETAO 100000 5.83170 .02080 10.504 -2.028 .60040 .9018000790 .00910 .00000 5.83170 .02080 10.465 .931 .60010 .7025000560 .00220 .00000 5.83280 .02910 10.480 5.560 .59930 .3895000470 .00730 .00000 5.82470 .02230 10.485 12.957 .600501114000170 .00580 .00000 5.81620 .02310 10.495 27.883 .59980 -1.12560 *.00090 .00160 .00000 5.80430 .03860 10.513 42.956 .60040 *2.15480 .00170 .00120 .00000 5.79700 .03140	CL CD .40130 .08040 .41960 .07960 .43370 .08080 .45220 .08370 .48250 .08800 .50130 .09110 .00000 .00000	CLH .07090 .04990 .04010 .03240 .02160 .01590
RUN NO. 712/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00		
ALPHAO DZ MACH DX DY BETAO PHI ALPHAN BETA	CL CD	CLH
001490 - 257 .599702059000380 .00380 5.86580 .01490	.67960 .16350	.07490
18 875 3.331 .60860 +.4955000160 .00308 .00800 5.86000 .02250	.68240 .16220	.06370
14.823 7.779 .599908004000110 .00300 .60000 5.85040 .62240	.68630 .16300	.05560
19.816 15.438 .60000 -1.32290 .00000 .00190 .00000 5.83870 .02460	.69950 .16570	.04290
14.812 30.319 .60000 -2.33750 .07000. 610000 5.0250	.71710 .17190 .73050 .17510	.03260
יום און אום און אום און	.73050 .17510 .0009100842	05362

DATE OF DEC 75

TABULATED SOURCE DATA - CARD

( 29 JAN 75 ) (BGN144) CA20 747/1 02 SI ORBITER DATA PARAHETRIC DATA REFERENCE DATA ALPHAC \* 4.000 DETAC .000 XHSP 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. 15.000 RUO-L 15.000 RUD-U -.0000 IN.YO YHRP 474.BICO IN. LREF .000 ELEVON -5.000 AILRON -375.0000 IN.ZO 936.6800 IN. ZMRP = BREF = .000 BETAD -.000 PHI .0300 SCALE = .800 ΩY .086 DX GRADIENT INTERVAL = -1.00/ 4.00 3.35 RUN NO. 725/ 0 RN/L = CLH CD ALPHAH BETA CL PHI DY BETAD ĐΧ ALPHAO ĐΖ MACH .04360 .32700 .07420 .09430 5.83560 .00000 -.02120 .00900 .59920 .86940 -2.198 10.493 .08560 .33490 .07520 .04430 -.01790 .00720 .00000 5.83230 .65950 .60080 .873 10.490 .07720 .07940 5.82620 .64540 .34500 .00000 -.01580 .00630 .34600 5.397 .68040 10.499 .09040 .07360 . 04640 .36120 5.82090 .00430 .00000 -. 17060 -.01280 .60040 10.503 12.963 .38970 .08580 .06620 -.00140 .00000 5.81010 .05480 -.00340 -1.20520 .60980 10.527 28.053 .46660 .08930 .06100 .00000 5.80140 .05530 -.00120 -2.22510 -.00150 42.969 ,59970 10.533 .00000 .00000 .00800 .00000 .08080 .00000 .00000 .00000 .00000 .00000 GRADIENT ( 20 JAN 75 1 (868145) ORBITER DATA CA20 T47/1 01 51 PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 4.000 BETAC = 1109.0000 IN.XO 2690.0000 SQ.FT. XHRP SREF = 3.600 ELV-18 -.000 ELV-08 = 474.8100 IN. YHRP .0800 IN.YO LREF .000 MACH -.500 ELEVON -375.0000 IN.ZO ZHRP 935.6800 IN. BREF = .000 BETAD = .000 PHI .0300 SCALE \* .000 DY .000 GRADIENT INTERVAL = -1.00/ 4.00 3,37 RUN NO. 719/ 0 RN/L = CLH CL  $\alpha$ ALPHAH BETA DATES PHI DY DΖ MACH ĐΧ ALPHA0 .12098 .05940 5.83900 .01600 .29450 .86160 -.02240 .01230 .00000 .59950 -2.315 10.500 .09500 .05840 .00790 .31570 .00000 5.83720 -.01560 .01010 .64410 .910 .60010 10.485 .00740 .33010 .05900 5.83290 .00900 .00800 -.01970 5.273 .60050 .34780 10.479 .07550 .35040 .06170 .00680 .00000 5.82510 -.17030 -.01270 .00720 12.814 .59990 10.493 .05540 .06678 .00000 5.81500 .01410 .38100 .00240 -.00700 .59990 -1.20940 10.514 27.985 .40300 .06950 .65710 5.81090 .01410 .00000 .00230 -2.22930 -.00590 42.655 .60060 10.516 .00000 .00000 .00000 .00000 .00000 .00000 .08080 .00000 .00000 .00000 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 720/ 0 RN/L = 3.36 CO CLH ALPHAH BETA DETAD FHI DZ · HACH ĐΧ DY **ALPHAO** .57300 .13110 .12960 .00789 5.87110 .00660 .00000 .59990 -.35440 -.01240 14.834 .261 .12930 .10816 5.86790 .00710 .58440 .00510 .00000 -.01030 -.56180 3.316 .60070 14.809 .12990 .09820 .01500 .59020 5.85940 .00450 .00000 .60050 -.86160 -.00B70 7.681 14.796 .08630 .13290 .00720 .60300 .00320 .00888 5.84680 -.00440 .60020 -1.38380 14.787 15.322 .07400 .01380 .62340 .13900 5.83010 .00030 .00000 .00200 30.199 .60020 -2,40060 14.785 .05920 .14260

.00000

,00000

.00150

.00069

.59980

.00026

45.162

GRADIENT

14.785

-3.43280

-.06788

-.00110

-.00016

5,62200

-.00105

.01400

-.00023

.63280

.00373

-.00059

-.00704

-.08028 -.08692

45.331

GRADIENT

14.791

			CAZD	747/1	01 51		O	ROITER DATA	<b>.</b> .	(BGN14	5) (20 J	WN 75 3
	REFERENCE	DATA								PARAMETRIC	DATA	
SREF =	2690.0000 <b>SQ.F</b> I	r. XHRP	<b>=</b> 1109.0	00.NJ 000					ALPHAC >	4.000	BETAC .	.006
LREF =	474.8100 IN.	YHRP		000 IN.YO					ELV-18 =	.000	ELV-08 =	3.000
BREF =	936.6800 IN.	ZHRP		000 IN.ZO					ELEVON =	10.000	MACH =	.600
SCALE =	.0308	£1111					•		BETAO .	.000	PHI =	.000
SCHEE -	.0302								0x =	.000	DY -	.000
	•	RUN NO	. 714/0	RN/L =	3.32	GRAD	IENT INTER	VAL = -1.0	00/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETA	10	PHI	ALPHAH	BETA	CL	co	CLH
10.553	-1.753	.60000	.91190	01320	.611	60	.00000	5.84170	.00730	.50590	. 10840	.02260
10.538	1.319	.59950	.70500	01080	.010	60	.00000	5.84200	00080	.52420	.10760	.0051 <b>0</b>
10.533	5.976	.59920	.39120	00710	.008	180	.00808	5.83500	00140	.54040	.10870	00510
10.546	13.370	.59940	11340	08420	.007	/10	.03309	5.82500	00930	.55980	.11230	01380
10.559	28.434	.59990	-1.13730	00290	.008	:30	.00800	5.81890	.01370	.59060	.11718	C2340
10.566	43.399	.68840	-2.16030	.09340	.001	.69	.00000	5.80210	00170	.60770	.12030	02900
	GRADIENT	.00000	.00000	.00800	.000	100	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO	, 715/ 0	RN/L = .	3.26	GRAD	IENT INTER	VAL = -1.	00/ 4.00			
ALPHAO	DZ	МАСН	DX	ÐY	BETA	10	PHI	ALPHAH	BETA	CL.	CD	CLH
14.836	.243	.60050	21980	.00160	.000	340	.00000	5.87510	~.COBBO	.77340	. 19830	.03580
14.814	3.412	.59960	43820	.08880	.000	300	.00800	5.87140	00930	.78090	.19710	.01930
14.803	7.911	.60000	74500	.03773	.009	520	.00800	5.86270	.00559	.78590	.19820	.01000
14.796	15.416	.80080	-1.25670	.01250	.00	+00	.00880	5.84880	00140	.79520	.20170	.00000
14.750	30.262	.60080	-2.27078	.01570	00	190	.03880	5.82830	02970	.81010	.20960	01229
14.791	45.331	.59950	-3.30390	.01700	00	250	.00000	5.81480	00190	.82210	.21280	01860

-.00013

.00164

.00000

-.00117

-.00003

.00237

-.00038

-.00521

10.687

43.386

GRADIENT

TABULATED SOURCE DATA - CARD

.70020

.00000

-2.04590

.00000

PAGE 311 DATE OF DEC 75 (BGN147) 1 20 JUN 75 1 ORBITER DATA 747/1 01 SI CA20 PARAMETRIC DATA REFERENCE DATA BETAC = -000 ALPHAC . 4.000 XMRP = 1109.0000 IN.XO SREF = 2690.0000 50.FT. .000 ELV-OB = 3.000 ELV-IB = .0000 IN.YO 474.8100 IN. LREF = .300 10.000 HACH ELEVON = 375.0000 IN.ZO ZMRP = 936.6800 IN. BREF = .000 BETAO = .000 PHI SCALE = .0300 .000 .000 BY DΧ GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 717/ 0 1.89 RN/L = CLH CL CO BETAO PHI ALPHAH BETA DY DZ MACH DΧ **ALPHAO** .00960 -.01830 .47890 .09070 .00360 .00800 5.83780 .29950 .01180 .00220 10.141 -2.619 .09020 -.01020 -.01850 .49970 5.83750 .61310 .00380 .00280 .00800 .29970 10.136 .295 -.01580 .09150 .00260 .00000 5.83370 -.01670 .51100 .00390 4.872 .30050 .30110 10.135 -.02310 .52970 .09460 .00000 5.82540 -.01690 .29950 -.20310 .00500 .00150 12.202 10.139 -.03070 .55800 .09850 .00550 .00010 .00000 5.81450 -.01120 -1.21700 .29920 28.995 10.139 10150 -.03400 -.08030 .08080 5.30700 -.01130 .57190 -2.26320 .00710 42.221 .30030 10.142 .00000 .00000 .00000 .00000 .00000 .00003 .00000 .00000 .00000 . 98000 GRADIENT (BGN148) ( 20 JAN 75 ) ORBITER DATA CVSO 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC -.000 XHRP - 1109.0000 IN.XO 2590.0000 SQ.FT. ELV-IB = .000 ELV-08 = 3.000 474.8100 IN. YHRP OY.NI 0000. LREF = HACH .700 10.000 ELEVON = ZMRP = 375.0000 IN.ZO BREF = 936.6800 IN. .000 BETAD -.000 PHI SCALE # .0300 .000 DY .000 ĐΧ GRADIENT INTERVAL # -1.00/ 4.00 RUN NO. 716/ 0 RN/L = 3.54 CD CLH BETA ALPHAH BETAO PHI DZ HACH DX DY ALPHAD .02690 .12700 .00160 .53280 -.00650 .00800 .00000 5.84060 .69950 1.00630 10.694 -1.671.01000 -.00650 .54950 .12670 .00880 5.64050 -.00020 .00550 .BD310 10.575 1.352 .69940 -,00150 .12820 5.83300 .00040 .55530 .00430 .00000 5.781 .69990 .50890 .00080 10.669 .13160 -.00350 -.007E0 .58230 .00320 .00000 5.82130 .69970 .00210 .00210 13.248 10.672 5.80840 -.01510 .60590 .13690 -.01810 .00000 .00480 -.08020 .69350 -1.01140 10.578 28.136

-.00150

.00000

.00670

.00000

-.02500

.00000

.14090

.00000

.62500

.00000

5.79430

.00000

.00000

.00000

-.00790

.00000

the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

DATE OI DE	EC 75	TABUL,	ATED SUCHCE	DAIA - ÇA	20						
			CAZD	747/1	01 SI	0	RBITER DATA		(BCN14)	9) (20 3	W 75 1
	REFERENCI	E DATA							PARAHETRIC	DATA	
	2699.0000 SQ.1 474.8100 IN. 936.6800 IN. .0380	FT. XHRP YMRP ZMRP	08	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = RUD-U = ELEVON = BETAO = DX =	4.600 .000 5.000 .600	DETAC = RUB-L = AILROH = PHI = DY =	.000 .000 -10.000 .000
		RUN NO	. 722/ 0	RN/L =	3.33 GRAI	DIENT INTER	VAL = -1.0	0/ 4.00			
ALFHAO	DZ	HACH	אם	DY	BETAO	PHI	ALPHAH	BETA	Cr	CD	CLH
10.503	-2.010	.59960	CEDEB.	.25100	08650	.00000	5.85820	.01850	.41350	.09480	.05870
10.487	1.016	.60000	.68680	.25740	09050	.08080	<b>5.</b> 85820	.01738	.43080	.08440	.04020
10.482	5.470	.60000	.39360	.26120	09370	.08080	5.65130	.01560	.44550	.08500	.0300 <b>0</b>
10.481	12.919	.59940	12140	.26980	69810	.00580	5.64070	.00120	.46790	.09780	.01910
10.494	28.155	.59990	-1.16420	.27880	10760	.08080	5.02880	.01190	.50050	.09310	.00 <b>716</b>
10.501	42.900	.60060	-2.17720	.28710	11030	.88888	5.82100	.00890	.51960	.09670	.00020
	GRADIENT	.00000	.00008	.00000	.00000	.00000	.00800	.00000	.00000	.00000	.00000
		CINI NO	227.0	CMA -	3 20 CD1	DIENT INTER	WAI m -1.0	n/ 4.00			

RUN NO. 723/ 0 RN/E = 3.28 GHADIENT RATERVAL = -1.00/ 4.00												
ALPHAO	DZ	МАСН	DX	DY	BETAO	PHI	ALPHAH	BETA	CL	CD	CLH	
14.792	. 127	.6803D	27480	.24988	09720	.00880	5.68590	.01450	.69230	. 16890	.06120	
14.780	2.655	.59940	46850	.25950	09848	.09888	5.88230	.01270	.68750	. 16530	.05780	
14.769	7.573	.59960	79580	.26120	16000	.00080	5.07690	.02520	.69110	. 16559	.04980	
14.755	15.007	.60,20	-1.29790	.26930	10580	.08000	5.66080	.01260	.71060	.16920	.03040	
14.753	30.023	.60090	-2.32950	.28280	11230	.00000	5.84740	.00450	.73160	.17610	.01680	
14.748	45.056	.60010	-3.36330	.28550	11380	.08000	5.03310	.00650	.74360	.17960	.00850	
19.740	COADIENT	00033	07103	.00395	00044	.00000	00128	00086	00176	08132	00125	

,

graph and the second of the se

PAGE 313 TABULATED SOURCE DATA - CA20 DATE BI DEC 75 ( 25 JUN 75 ) (CCN0461 747/0 OI SI AT38 AT39 ORBITER DATA CAZO PARAMETRIC DATA REFERENCE DATA .000 BETAC . .006 ALPHAC = 1109.0000 IN.XO XHPP 2690.0800 SQ.FT. 3.600 ELV-08 = .000 ELV-IB . .0000 IN.YO YHRP 474.8100 IN. LREF .500 5.000 HACH . ELEVON = ZHRP 375.0800 IN.ZO 936.6800 IN. BREF = .000 PHI .000 BETAD . .0300 SCALE # BY .000 .000 GRADIENT INTERVAL = -1.00/ 4.00 3.37 RN/L . RUN NO. 619/ 0 CLH CSL BETA CY ALPHAN PHI **BETAO** ĐΥ DX HACH DZ -**ALPHAO** -.03090 -.00330 -.00260 .05340 1.94510 .01640 .00000 -.03230 .59950 3.60120 8.543 1.907 -.00290 -.00080 -.C0210 1.94340 .05390 .00000 .01460 -.02820 3.59700 4.646 .60050 8.538 -.00270 -.00090 -.00140 .05390 .00000 1.84340 -.02610 .01230 .59950 3.59490 8.531 9.288 -.00250 -.00050 -.00110 .00000 1.92880 .05010 .00940 -.02240 .59990 3.59790 17.691 8.529 -.00230 -.00010 -.00040 .05980 .00000 1,91450 -.01480 .00500 3.50800 .59930 8.525 31.807 -.00240 -.00060 .00010 .05200 .00000 1.91010 .00510 -.01210 3.61500 38.614 .69000 8.523 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT t 20 JAN 75 1 (CGN041) **CRBITER DATA** OI SI AT3B AT39 CA20 747/0 PARAHETRIC DATA REFERENCE DATA .000 4,000 BETAC ALPHAC = XHRP 1109.0000 IN.XO 2690.0000 SO.FT. 3.000 ELY-08 = .000 ELV-IB = .0000 IN.YO 474.8100 IN. YHRP LREF .600 5.000 HACH ELEVON = 375.0800 IN.ZO 936.6800 IN. ZHRP = BREF -.000 BETAD . .000 PHI .0300 SCALE -.000 DY .000 DX GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.27 RUN NO. 621/ 0 CLN ÇSL CY BETA ALPHAH **BETAO** PHI DY HACH DX DZ -.00330 **ALPHAO** .00000 ~.00090 5.83310 .05160 .00000 -.01860 .00680 .59940 -.06780 .955 12.656 -.08280 .00020 .86890 -.60840 5.62950 .00350 .00000 -.33520 -.01570 .59260 4.780 12,650 .00020 -.00250 -.00040 .04540 5.82270 .00330 .00000 -.01060 -,69320 .59960 8.551 12.648 .00040 +.00220 .05270 -.08020 5.81040 .00000 .00120 -1.07500 -.00980 .60020 15.655 12.651 ~.00200 .000080 .08010 02000. 5.79490 .00000 -2.11910 -.093B0 -.03410 .60070 30.655 12.672 .00090 -.00240 08000. .CE010 5.78510

-.00250

.01270

.00000

-3.13100

-4.14410

.00000

.60050

.55550

.00000

12.678

12.678

45.578

60.229

GRADIENT

-.00480

-.01300

.00000

.00000

.00000

.00000

5.77850

.00000

-.00250

.00000

.00140

.00000

.00250

.00000

.05240

.00000

.00590

.00450

.00370

.00320

.00000

.01720

.01720

.01710

.01740

.00000

.04640

.05030

.05180

.05250

.00000

-4.98220

-4.98470

-4.97510

-4.98250

.00080

12.617

12.618

12.630

12.635

12.636

.59940

.59970

.59980

.59950

.59910

.00000

-1.14280

-2.16520

-3.21640

-4.17159

.00000

B.510

16.134

31.004

46.251

60.055

GRADIENT

.00000

.00000

.00000

.00000

.00088

-5.23870

-5,24900

-5.25230

-5.25550

.09000

1.44840

1.47370

1.48210

1.48950

.00000

5.80320

5,79220

5.78510

5.77980

.00000

DATE OI DEC 75 TABULATED SOURCE DATA - CA20

GRADIENT

PAGE 315 CA20 747/0 O2 S1 AT38 AT39 ORBITER DATA (CGN0443 ( 20 JAN 75 ) PARAMETRIC DATA REFERENCE DATA ALPHAC = SREF = 2690.0000 SQ.FT. XHRP = 1109,0000 IN.XO 4.000 BETAC = -5.000 YHRP .0000 IN.YO ELV-18 = .000 ELV-08 = 3.000 LREF 474.8100 IN. ELEVON . 5.000 .600 BREF \* 936.6800 IN. ZMRP = 375,0000 IN.ZO HACH BETAO = -5.000 PHI .000 SCALE = .0300 DX .000 DY .000 RUN NO. 623/ 0 RN/L = 3.33 GRADIENT INTERVAL = -1.00/ 4.00 **BETAO** PHI ALPHAH BETA CY CLN CSL. **ALPHAO** DZ HACH ĐΧ DY -4.98900 12.689 1.078 .60000 -.11690 1.45730 -5.21700 .00000 5.83930 .05240 .00860 .01250 4.227 .60030 -.34250 1.45710 -5.21810 .00000 5.83370 -4.89230 .05190 .00950 .01070 12.567 .60080 -.63820 1.47060 -5.22580 .00000 5.82500 -4.98420 .05390 .01010 .00880 12.564 8.517 12.671 16.093 .60020 -1.16010 1.48740 -5.23480 .00000 5.81380 -4.97680 .05660 .01060 .00720 -5.24470 .00000 5.79960 -4.97500 .06020 .01070 .00570 12.680 31.112 .59970 -2.19170 1.51140 -5.24610 .00000 5.78840 -4.97470 .00490 46.160 .60010 -3.22910 1.51770 .06120 .01060 12.697 1.52760 5.78270 -4.9823D .06270 60.200 .59940 -4.20270 -5.24940 .00000 .01060 .00430 12.700 GRADIENT .00000 .00000 .00000 .08080 .00080 .00000 .00000 .00000 .00000 .00000 CA20 747/1 01 S1 AT38 AT39 ORBITER DATA (CGN045) 1 20 JAN 75 1 PARAHETRIC DATA REFERENCE DATA 2690.0000 SQ.FT. XHRP 1109.0000 IN.XO ALPHAC = .000 BETAC = .000 ELV-18 = 3.000 LREF 474.8100 IN. YHRP .0000 IN.YO .000 ELY-OB = 8REF ≕ 936.6800 IN. ZMRP 375.0000 IN.ZO ELEVON \* 5.000 HACH .600 SCALE = .0300 BETAO = .000 PHI .000 .000 DY .000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 627/ 0 RN/L = 3.23 DΖ HACH DX DY BETAD PHI ALPHAH AT3B CY CLN C2f" A! PHAO -.02480 .01080 .00000 2.00160 .64680 -.00220 -.00020 -.00290 8.542 .714 .59990 3.63520 .59920 3.63100 -.02890 .00950 .00000 2.00010 .05430 -.00120-.00060 -.00270 8.528 3.692 8.518 0.066 .59980 3.63410 -.01440 .00730 .00000 1.99340 .04570 -.00040 -.00060 -.00240 .00490 -.00020 -.00220 9.507 15.605 .59930 3.63780 -.01330 .00000 1.98550 .05310 -.00040 8.501 30.694 .59970 3.64610 -.00330 -.00020 .00000 1.97170 -04490 .00080 -.00010 -.00280 -.80250 -.00010 36.458 .60090 3.64900 -.00040 .00800 1.96870 .04470 .00160 -.00210 8.499 -.00024 -.00141 .80131 -.00044 .00000 -.00050 .00252 .00034 -.00013 .00007

			CA20	747/1	01 51	AT38	AT39	ORBITER DATA	,	(CGHO)	E) (28 J	H 75 1
	REFERENCE	DATA								PARAHETRIC	: DATA	
REF = 2	2690.0000 <b>5Q.</b> F	T. XMRP	= 1169.00	00 IN.XO					ALPHAC =	4.000	BETAC .	.000
REF =	474.8100 IN.	YMRP	• •	DO IN.YO					ELY-IB =	.000	ELV-08 =	3.000
REF =	936.6800 IN.	ZHRP		00 IN.ZO					ELEVON .	5.000	MACH =	.600
CALE =	.0300		•						BETAO =	-686	PHI =	.000
-									DX =	_000	DY =	.000
		RUN NO	. 625/ 0	RN/L =	3.33			ERVAL = -1.0				45
ALPHAG	OZ	MACH	DX	DY	BET		FHI	MAHELIA	BETA	CY	CLN	CSL
12.932	1.832	.60070	18360	02470	.00		.00000	5.90010	.05470	00260	.00820	002
12.928	4.902	.60050	<b>~.3</b> 9970	02410	.00		.00000	<b>5.</b> 69570	.06970	00210	.00080	003
12.919	9.333	.59970	70459	01690	.00		.00000	5.6918D	.04620	00200	.00080	08
12.922	16.287	.60010	-1.18640	01010	.00		.00000	5.86020	.05340	00170	.00890	00
12.928	31.736	.5970	-2.24670	00760	00		.00000	5.65670	.04510	00070	.00130	002
12.931	46.536	.60010	-3.26590	00890	00		.00000	5.65220	.06070	-,08020	.00110	002
12.938	61.653	,69990	-4.32120	.00258	00		.00000	5.64840	.05200	.00000	.001 <b>70</b> .00000	003
	GRADIENT	.00000	.00000	.00800	.08	000	.00000	.00000	.00000	.02020	• 00000	-001
			CA20	747/1	01 SI	AT3B	EETA	ORBITER DATA		(CCN04	47) ( 20 JA	เห 75 :
	REFERENCE	DATA								PARAMETRIC	C DATA	

eref Lref		2590.0000 474.8100	XMRP YMRP		1109.0000	IN.XO	ALPHAC ELV-18			BETAC ELV-08		.080. 800.E
EREF SCALE	=	936.6900		-	375.0000		BETAO BETAO	=	5.000 .000	MACH PHI	<b>=</b>	003. 000.
SUMEE	-	.0300					DX	=	.000	DY	•	.000

RUN NO. 626/ 0

GRADIENT

ALPHAO	DZ	MACH	ĐΧ	ÐY	BETAO	PHI	ALPHAH	BETA	CY	CLN	C5L
16.841	.924	.60020	-2.89540	01670	.00380	.00000	9.78520	.84800	00200	.00110	00220
16.843	3.722	.60080	-2.48890	01030	.00240	.00000	9.78090	.03220	00120	.00080	00210
16.845	8.201	.60030	-3.10370	00870	.00280	.00000	9.77510	.04050	00050	.00070	00250
16.850	15.692	.59940	-4.13510	00210	00030	.00000	9.76470	.04690	.00100	.00040	-,00290
16.865	30.700	.59980	-6.20900	.00960	00430	.08800	9.74940	.04650	.00390	.00010	00340
15.875	45.718	.59990	-0.29310	.01440	00560	.00000	9.73700	.04670	.00380	.00000	00350
16.691	61.155	.59980	-10.44360	.02570	01250	.00000	9.72920	.05480	.08560	.00020	+-00360
16.891	67.897	.59990	-11.37640	.03360	01550	.00000	9.72220	.04720	.00650	-08030	00370
16.831	75.245	.69970	-12.40620	.03680	01600	.00000	9.72280	.04730	.00710	.00010	80408
	GRADIENT	.00021	14064	.00229	00050	.00000	00154	00279	.00029	00011	.00004

.00229

GRADIENT INTERVAL = -1.00/ 4.00



DATE OI DEC 75

TABULATED SOURCE DATA - CA20

(CGH04B) ( 20 JAN 75 3 CA20 747/1 OI 51 AT38 AT39 ORBITER DATA PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC . -5.000 XHRP 1109.0000 [N.XO SREF = 2690,0000 SQ.FT. .000 ELV-OB . 3.000 ELV-IB = YHRP .0000 IN.YO LREF = 474.8100 IN. ELEVON = 5.000 HACH .600 936.6900 IN. ZMRP 375.0000 IN.ZO BETAO = -5.000 PHI .000 .0300 SCALE = .000 .080 DY DX GRADIENT INTERVAL = -1.80/ 4.00 RUN NO. 624/ 0 RN/L = 3.34 BETA CLN CSL HACH DX DY BETAD PHI **ALPHAH** CY **ALPHAO** DZ 5.89270 -4.97770 .01580 .01220 -5.22730 .00000 .04250 .60050 -.09170 1.42280 .950 12.701 -4.97960 .01810 .01040 -,31050 1.41650 -5.23070 .00000 5.88430 .04030 12.684 4.036 .60000 -5.23560 .60080 5.88040 -4.97320 .04380 .01750 .00840 -.60550 1.43390 8.306 .59970 12.674 .01740 .00660 5.85540 -4.98130 .04790 -1.11840 1.46120 -5.24530 .00000 12.674 15.805 .59980 .00520 1.48350 -5.25590 .00000 5.85530 -4.96770 .05190 .01740 12.679 30.896 .59900 -2.16020 .05328 .01740 .00410 5.84400 -4.97339 45.974 .59940 -3.19910 1.49390 -5.25890 .00000 12.680 1.50010 -5.26240 .00000 5,83610 -4.97300 .05380 .01770 .00360 .60090 -4.10950 12.692 60.286 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000 .00000 ORBITER DATA 1CGN0491 ( 29 AUG 75 ) 747/1 01 51 CASO PARAMETRIC DATA REFERENCE DATA BETAC \* .000 ALPHAC = .000 XHRP # 1109.0008 IN.XO SREF = 2690.0000 SQ.FT. ELY-18 = .000 ELV-08 -3.000 .0000 IN.YO 474.8100 IN. YHRP LREF ELEVON = HACH .600 5.080 375.8000 IN.ZO BREF = 936.6800 IN. ZMRP = BETAD = .000 .000 PHI .0300 SCALE = .000 ĐΧ .000 DY GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.24 RUN NO. 631/ 0 CSL DY BETAD PHI ALPHAH BETA CY CLN HACH DΧ **ALPHAO** DZ -.00260 1.98210 .05430 -.00170 -.00090 5.29790 -.02660 .01260 .00000 .59920 6.312 -1.419-.00120 -.00230 1.98020 .06190 -.00099 .59920 5.30150 -.02450 .01189 .00000 6.292 1.466 -.01630 .00880 .00808 1.97970 .04600 -.00050 -.00100 -.00220 5.30320 .59910 6.279 6.074 -.00070 -.00210 .00000 1.97080 .05290 -.00010 5.30920 -.01460 .00610 6.271 13.645 .59920 -.00080 -.00200 .59950 5.30430 -.01130 .00540 .00000 1.97780 .04510 .00010 16.398 6.270 -.08050 -.00180 -.00590 .00200 .00000 1.95400 .04490 .00088 5.31460 6.269 23.904 .60010 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000 .08000

GRADIENT

.00000

.00000

.00000

.00000

CA20 747/1 01 51

ORBITER DATA

.00000

.00000

.00000

(COH049) ( 29 AUG 75- )

PARAMETRIC DATA

FREN	

	144 44										
LREF .	698.0000 SQ. 474.8100 IN. 938.6800 IN. .0300	YMRP	0	000 1N.XO 000 1N.YO 000 1N.ZO				ALPHAC = ELV-1B = ELEVON = EETAO = OX =	.000 .000 5.000 .000	EETAC = ELV-08 = HACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO.	628/ 0	RN/L =	3.29 GRA	DIENT INTER	VAL1.00	/ 4.00			
ALFHAO	DZ	MACH	ÐΧ	DY	GETAD	PHI	ALPHAH	BETA	CY	ČLN	CSL
	1.272	.5950	2.52450	01930	.00730	.00000	2.01030	.04640	00170	.00010	03258
10.637		.59910	2.52460	01980	.80740	.00000	2.00740	.05410	00140	08010	00230
10.614	3.983	.59970	2.52550	01370	.08630	.00000	2,00440	.03840	00100	08010	00220
10.601	6.941	.55570	2.52630	015B0	.00590	.00000	2.00010	.64550	00110	.02020	00216
10.592	9.629	.60070	2.52980	01470	.00910	.00000	1,99100	.65300	000BD	.00010	00190
10.583	15.154 20.699	,60030	2.53050	01350	.00330	.00000	1.97990	.05250	00070	.00010	001 <b>80</b>
10.565	£8.32 <b>5</b>	.00000	2.53340	00870	.00030	.00000	1.97440	.04490	.00000	.00030	00170
10.532	31.593	28830	2.53780	00530	00040	.00000	1.97230	.05230	.00840	.00020	00180
10.555	37.416	.59910	2.53880	88550	.00000	.00000	1.96870	.05230	.00040	.00010	00200
10.550	42.935	.60070	2.54520	00450	08869	.00000	1.96310	.05230	.88970	.00010	00210
10.551	48.085	.59910	2.53990	00120	00220	.00000	1.96090	.04440	OBC00.	.02020	00210
10.555	GRADIENT	00015	.00011	00018	.00004	.00000	00107	.00284	.00011	60007	.00007
		RURE NO.	630/ 0	RN/L =	3.25 GRA	DIENT INTER	RVAL = -1.0	4.00			
ALPHAD	DZ	MACH	אם	ĐΥ	BETAO	PHI	ALPHAH	BÉTA	CY	CLN	car
14.839	3.701	.59910	1.51970	.00250	.00170	.00000	2.03660	.03910	.00193	00040	00350
14.820	6.608	.59920	1.51440	.00350	.00140	.00000	2.03470	.04660	.00250	00060	00360
	11.326	.60080	1.51690	.00280	.00070	.00000	2.02900	.65400	.00250	00060	00350
14.798 14.777	18.752	.59910	1.50530	.69510	00130	.00000	2.01470	.04590	.00260	00030	00340
14.777	33.074	.59940	1.50510	.01100	00339	.08809	1.99380	.04490	.00330	00040	00330
14.751	48.459	.60030	1.51130	.01550	00540	.00800	1.97740	.04440	.00380		00320
14.740	63.690	.60090	1.51010	.02740	01460	.00080	1.97150	.64430	.00510	.00050	00290
14.140	00.000	.00000					00000	00000	nnnnn	กกกกก	anaan.

.00000

.00000

.00000

DATE OF DEC 75

## TABREATED SOURCE DATA - CARD

(CON050) 1 29 AUG 75 1 CRBITER DATA 747/1 01 51 CA20 PARAMETRIC DATA REFERENCE DATA BETAC = .000 ALPHAC = .000 XHRP 1109.0000 IN.XO 2690.0800 SQ.FT. SREF 3.000 .000 ELY-08 = ELY-18 = .0000 IN.YO YHRP 474.8100 IN. LREF .600 5.000 HACH ELEVON = 375.0000 IN.ZO ZHRP 936.6880 IN. BREF .000 PHI .000 BETAO = OBEG. SCALE = DY .000 10.000 GRADIENT INTERVAL - -1.00/ 4.00 3.25 RN/L # RUN NO. 538/ 0 CSL. BETA CY CLN BETAO PHI **ALPHAH** DY MACH DX **ALPHAO** ĐΖ -.00230 -.00200 -.00130.00000 1.97000 .05470 -.03320 .01450 15.27190 .172 .60020 6.250 -.00220 -,00150 -.00110 1.97180 .05450 .00000 15.27150 -.02910 .01190 .59960 3.541 6.243 -.00210 -.00120 .05360 -.00090 1.96950 .01060 .00000 -.02610 15.27720 .59990 6.236 7.711 -.00200 .05350 -.00050 -.00110 .00000 1.96200 .00880 -.02330 .60070 15.28380 6.239 15.213 -.00080 -.00190 -.00060 1.96290 .05310 .00000 -.02260 .00730 15.28410 .59920 6.237 10.581 -.00050 -.00180 .05300 -.00050 .00000 1.96020 .00520 15.28710 -.02100 6.238 24.078 .59920 .00003 -.00006 .00015 .00006 .00000 .00053 .00122 -.00077 -.00018 -.00012 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 3.24 RUN NO. 637/ 0 RN/L = CLN CSL CY BETA BETAO PHI ALPHAH ĐΧ DY HACH ALPHA0 ĐΖ -.00250 .00000 .05490 -.00160 .00000 1.99630 -.02510 .00710 2.219 .59910 12.46630 10.523 -.00020 -.00246 -.00100 1.99520 .04680 .00000 -.01920 .00660 12.46980 5.391 .59950 10.508 -.00220 -.00020 .04620 -.00100 .00000 1.99040 .00600 12,47340 -.01890 .60000 10.498 9.749 -.00200 -.08030 -.00010 1.98140 .04560 .00000 -.01460 .00350 .59960 12.47830 17.197 10.491 .00020 -.00190 .05270 .00030 1.96940 -.01260 .00010 .00000 .59980 12.48740 10.487 32.470 -.00200 .00046 .00010 .00000 1.96590 .05250 .00080 12.49080 -.01300 39.016 .60020 10.486 .00090 .00020 -.00220 1.96280 .04470 .00000 12.49408 -.00650 -.00130 .59980 47.260 10.484 .00000 .00000 .00000 .00000 .00880 .00000 .00000 .00000 .00000 .00000 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 638/ 0 RN/L = 3.23 CY CLN CSL. BETA **ALPHAH** BETAO PHI MACH ĐΧ DY DZ **ALPHAO** -.00300 -.00040 .00160 .04720 .00200 .00000 2.02580 -.00530 11.34780 .60030 14.710 4.989 -.00046 +.00290 2.02180 .04740 .00150 .00000 -.00530 .00170 .59990 11.34880 8.249 14.694 -.00030 -.00270 .03140 .05400 2.01548 -.08840 .00150 .00000 11.35090 .60070 14.680 12.695 -.00260 -.00020 .00200 .00000 2.00340 .05400 -.00460 -.00090 11.35310 20.170 .60000 14.671 -.00280 .00260 -.00030 1.98500 .05070 -.08440 -.00170 .00000 .59900 11.36060 35.008 14.656 -.00270 .00020 .00290 .05240 -.00530 000000 1.97450 .00210 .59990 11.36550 50.142 14.656 -.00270 .00070 .00000 1.96780 .64470 .00490 .01860 -.01370 11.37090 64.911 .60050 14.648 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .08000 **GRADIENT** 

CA20 747/1 01 St

.00000 .

.00000

.00000

.00000

ORBITER DATA

.00000

.00000

.00000

.00000

.00000

.00000

(CGH051) ( 29 AUS 75 )

PARAMETRIC DATA

 ERE		- 4

**GRADIENT** 

SREF LREF BREF SCALE	=	2699.0000 474.8100 936.6800 .0300	IN IN	•	XHRP YHRP ZHRP	-	1109.0000 .0000 375.0009	IN.YO	ALPHAC ELV-18 ELEVON ESTAO OX	-		.000 .000 5.000 .000 c00.00	BETAC ELV-OB HACH PHI DY	-	.000 3.000 .600 .000
-------------------------------	---	--------------------------------------------	----------	---	----------------------	---	--------------------------------	-------	-------------------------------------------	---	--	-----------------------------------------	--------------------------------------	---	-------------------------------

BREF = SCALE =	.0300 IN.	ZHRP	<b>= 375.</b> 0	1800 IN.ZO				ECEVOR = EXTAO =	000. 000. 000.65	PHI =	.000
		RUN NO	. 641/0	RN/L =	3.24 GRA	DIENT INTER	VAL = -1.69	)/ 4.00			
ALPHAO	οz	MACH	XQ	DY	BETAD	PHI	ALPHAN	BETA	CY	CLH	CSL
8.190	8.425	.69990	25,24210	02560	.00940	.00900	1.95160	.05390	00040	00130	00200
6.192	11.558	.59910	25.24410	02540	.09800	.00000	1.96010	.05370	00040	00120	00200
6.193	16.022	.60000	25.25100	02440	.00710	.00000	1.95580	.85350	00030	00103	00190
6.197	23.551	.55930	25.25360	02090	.00460	.00000	1.95530	.05310	.000 <b>30</b>	00080	00190
0.10.	GRADIENT	.00000	.00800	.00000	.08080	.00000	.00000	.00000	.00000	.00000	.0888 <b>0</b>
		RUN NO	. 640/ 0	RN/L =	3.25 GRA	DIENT INTER	VAL = -1.0	0/ 4.00			
ALPHAO	02	MACH	DX	ĐΥ	CATSB	PHI	ALPHAH	BETA	CY	CLN	C9L
10.406	10.347	.59940	22.40780	01410	.00510	.00000	1.98200	.03850	00040	00040	00230
10.407	13.221	.60000	22.91020	02080	.00430	.00000	1.97910	.65390	.00000	60040	00220
10.489	17.520	.59950	22.41390	01610	.00310	.00000	1.97280	.04590	.00000	00020	00210
10.410	25.437	.59920	22.42090	02088	.00140	.00000	1.96540	.65280	.00000	.00010	00190
10.413	90.957	.59860	22.43270	00750	.08010	.00000	1.95590	.03700	.08080	.00000	00220
10.411	46.554	.55540	22.43050	01450	08050	.00000	1.95860	.05260	.00110	.08000	00230
10.411	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00080	.00000	.00000
		RUN NO	o. 639/ 0	RN/L =	3.30 GRA	DIENT INTER	0.1- = LAV	0/ 4.ďQ			
ALPHAO	DZ	MACH	DΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
14.618	13.230	.59990	21.18160	01070	.00160	.00000	1.93590	.04660	.00100	00010	00250
14.617	16.279	.60030	21.10350	00400	.00160	.00000	1.99560	.03869	.00160	08033	60270
14.616	20.672	.60080	21.18810	08640	.00000	.00800	1.98930	.04630	.00190	00020	00260
14.614	29.161	.60090	21.19310	00216	00190	.00000	1.98890	.04560	.00270	08020	~.00290
14.610	43.280	.60080	21.20220	00190	00220	.00000	1.97860	.04490	.00270	60010	00290
14.697	69.256	.60809	21.26560	.00290	00690	.00000	1.96820	.04470	.00368		00260
14.664	€9.990	.60040	21.21290	.01290	01268	.00080	1.98040	.04450	.00550	.00050	00290
				00000	90000	00000	กกรกร	กกกกก	. 00000	_00000	.00000



DATE OF DEC 75

TABULATED SOURCE DATA - CA20

DATE OI DE	C 75	TABUL	ATED SOURCE	DATA - CA	20					-	
			CYSO	747/1	01 51	0	RBITER DATA		LCGN05	5) ( 50 TY	N 75 1
	REFERENC	E DATA						1	PARAMETRIC	DATA	
LREF =	690.0000 SQ. 474.8100 [N. 936.6800 [N.	YHRP	.0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = ELY-OB = HACH = PHI = DY =	000. 000. 000. 000.
		RUN NO	o. 632/ 0	RN/L =	3.24 GR/	DIENT INTER	IVAL = -1.0		.000	<b>.</b> -	.000
		KUN NU	. 6327 6	intre -						•	
ALPHAO	OZ.	MACH	OΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
6.161	-3.480	.60080	3.77560	02220	.01160	.00000	5.84160	.05500	00080	00120	00290
6.159	517	.60860	3.57990	01780	.01220	.80860	5.84240	.04650	00020	00170	00240
6.166	3.831	.60030	3.28090	81630	.01030	.00800	5.03070	.04590	00020	00140	00220
6.178	11.707	.59960	2.74170	01420	.00790	.00008	5.83720	. 05290	.00040	00130	00210
6.203	24.148	.53980	1.88550	00670	.00240	.00000	5.03190	.04470	.08070	00060	00180
0.202	GRADIENT	00087	06877	.00034	00844	.08000	00085	00014	.08080	.00007	.88005
		RUN NO	). 646/ 0	RN/L =		ADIENT INTER					0.00
ALPHAO	ĐŽ	HACH	ĐΧ	DY	BETAD	PHI	ALPHAH	BETA	CY	CLH	CSL
10.487	1.956	.59980	.61590	01230	.00670	.00000	5.86740	.03910	00050	00030	00290 00270
10.482	6.349	.60050	.31728	01200	.00600	.00000	5.86210	.04610	00020	00040	00240
10.480	13.746	.69930	18850	00960	.00400	.00000	5.85350	.04550	.00000	00020	00210
10.493	29.253	.59980	-1.25310	00390	00130	.00800	5.84130	.05260	.00080	.00020	
10.497	34.861	.59990	-1.63870	00460	00050	.00000	5.83810	.65250	.00080	.00010	00220
10.501	44.644	.60010	-2.27250	00250	00050	.00000	5.83380	.04480	.00090	.00000	00230
	GRADIENT	.00800	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO	0. 647/ 0	RN/L =	3.24 GR	ADIENT INTE	RVAL = -1.0	10/ 4.00			
ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	, ALPHAH	BETA	CY	CLN	CSL
14.023	.973	.60090	34980	00900	.00130	.00000	5.90030	.03900	00080	.00070	00210
14.79B	3.966	.59980	55880	00710	.00160	.00000	5.89710	.03820	00020	.00030	00180
14.785	8.718	.60859	88540	00548	.00080	.00000	5.89000	.04570	.00040	.00920	00200
14.777	16.065	.60050	-1.39120	00360	00028	.00800	5.87659	.05360	.00100	.00010	0022 <b>0</b>
14.774	31.103	.60080	-2,42410	.00730	00380	.00000	5.85800	.04480	.00250	.00000	00250
14.771	45.934	.59920	-3.45290	.00920	00550	.00000	5.84860	.05240	.00300	.00000	00270
14.771	60.784	.59920	-4,47470	.02360	01350	.00000	5.83630	.04490	.08450	.00060	00270
17.108	GRADIENT	00037	06982	.00063	,08017	.00000	00107	00027	.00020	00013	.00010
	CUMPTER	,00001									

CA20 747/1 01 ST

CREITER DATA

(COND53) £ 20 JAN 75 1

PARAMETRIC DATA

FRENCE	

LREF =	690.0000 <b>50.</b> 474.8100 IN. 938.6800 IN. .0380	YMRP	.0	000 IN.XO 000 IN.YO 000 IN.ZO	·			ALPHAC = ELV-1B = ELEVON = PETAO = OX =	4.000 .000 5.000 .000 10.000	BETAC = ELV-OB = MACH = PHI = OY =	.000 3.000 .600 .000
		RUN NO	. 635/ 0	RN/L =	3.27 GR	adient inter	VAL = -1.0	0/ 4.09			
4.5.440	DZ	MACH	DХ	DY	BETAC	PHI	ALPHAH	BETA	CY	CLN	CSL
ALPHAO	-3.556	.60030	13.78940	02950	.01620	.00000	5.03520	.04740	00160	00190	00270
6.127	-3.556 555	.60030	13.58720	03250	.01490	.00000	5.83590	.05259	00099	00190	00230
6.127	555 3.735	.60078	13.29050	03270	.01370	.00000	5.83540	.06170	00110	00160	00210
6.134	3.735 11.277	.60010	12.77230	02220	-01110	.00000	5.832BD	.04570	00060	00140	C0210
6.1 <del>6</del> 1 6.169	17.788	.60030	12.32180	01940	.00890	.00000	5.83040	.84560	00030	00128	00190
6.109	GRADIENT	00000	08850	00005	00028	.00000	00012	00818	00005	.00007	.00005
	CONDIENT	.00000									
		RUN NO	). 694/ O	RN/L =	3.23 GR	ADIENT INTER	VAL = -1.0	10/ 4.00			
ALPHAO	02	MACH	ĐХ	DY	BETAG	PHI	ALPHAW	BETA	CY	CLN	CSL
10.448	-1.201	.60020	10.79470	01680	.01530	.00800	5.84020	.02660	00340	00050	00290
10.448	1.842	.60020	10.59270	01490	.01460	.00000	5.84070	08010	09310	00060	00280
10.432	6.409	.60030	10.22290	00950	.01300	.00000	5.83720	00860	00280	08850	00240
10.435	13.966	.59590	9.77130	01640	.01100	.00000	5.82810	00150	00260	00030	00210
10.455	28.926	.60060	8.74770	00770	.00610	.00000	5.82040	.00580	00190	.08080	80170
10.455	43.699	,60000	7.70840	60160	.00500	100000	5.81398	00170	00140	.00020	00190
-	48.278	.60010	7.41478	00160	.08420	.00000	5.81240	00180	00190	.00040	00190
10.477	GRADIENT	.00000	.08080	.00000	.00000	.00000	00000	.00000	.00000	.00800	.00000
	DRADIEN	.00000	.00000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•					
		RUN NO	0. 693/ 0	RN/L =	3.23 GR	ADIENT INTER	WAL = -1.0	30/ 4.05			
		****	ÐΧ	DY	DETAO	PHI	ALPHAH	BETA	CY	CLN	CST.
ALPHA0	DZ	MACH	9.51270	01800	.00830	.00000	5.86830	00710	00540	.00140	00050
14.751	1.085	.60030		01580	00800.	.00000	5.86720	00830	00490	.00110	+.00010
14.731	4.167	.59960	9.30440	01780	.00750	.02020	5.85940	00890	00483	.00100	.00240
14.724	8.638	.60010	9.00320	01780	.00000	.00000	5.85020	.00510	08420	.00080	.00050
14.722	16.335	.60040	8.47869	01785	.00300	.00800	5.83490	00200	00130	.00040	00120
14.722	31.320	.59960	7.45320		.00300	.00000	5.82450	.00580	00080	00090	00160
14.727	46.516	.60010	6.40990	00130		.00080	5.81820	00200	00000.	.00110	00180
14.727	61.207	.59940	5.39790	.01430	00580	-	.00000	.00000	.00000	.00000	,60000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000		

DATE BI DEC 75

TABULATED SOURCE DATA - CA20

PAGE 323 CA20 747/1 01 St ORBITER DATA (CGNDS+1 1 20 JUN 25 1 PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = .000 1109,0000 IN.XO SREE = 2690.0000 SQ.FT. XHRP YHRP .0000 IN.YO ELV-18 = .000 ELY-08 = 3.000 LREF = 474.BICO IN. ELEVON -HACH ZHRP 375.0000 IN.ZO 5,000 .600 936.6880 IN. BREF = BETAO = .000 PHI .000 SCALE = .0300 ĐΧ 20.000 OY .000 GRADIENT INTERVAL = -1.60/ 4.00 RUN NO. 642/ 0 RN/L = 3.22 **ALPHAH** BETA CY CLN CSL HACH ĐΧ ĐΥ BETAO PHI **ALPHAO** DΖ .59310 23.37960 -.02250 .01360 .00000 5.83460 .04650 -.00050 -.00200 -.00220 6.093 2.348 .05400 -.00030 -.00190 -.03210 23.15610 -.02620 .01220 .00000 5.83120 5.577 .59930 6.103 9.879 .59920 22.66210 -.02590 .01070 .00000 5.83040 .05370 -.08848 -.00160 -.00200 6.111 -.01930 .00820 .00000 5.82670 .04560 -.08010 -.00120 -.00200 22.33520 6.132 17.481 .59960 6.145 25.860 .59980 21.75890 -.02230 .00550 .00000 5.82680 .05300 .00020 -.00090 -.00180 .00000 .00000 .00800 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .80090 RUN NO. 677/ 0 RN/L = 3.28 GRADIENT INTERVAL = -1.00/ 4.00 CST. ALPHAD DZ HACH ĐΧ DY BETAO PHI **ALPHAH** BETA CY CLN .01220 .59980 20.39070 .00180 .00000 5.85300 -.00890 -.00230 -.00070 -.00250 10.302 4.428 .00000 5.84870 -.01700 -.00230 -.00060 -.00240 20.18050 .00640 .01130 10.309 7.499 .60020 .01160 5,84580 -.02500 -.00220 -.00050 -.00220 10.316 11.949 .59990 19.87580 .01040 .00000 19.513 .59990 19.35470 .00820 .00760 .00000 5.83900 -.01750 -.00210 -.00010 -.00200 10.336 5.83680 -.00990 -.00100 -.00010 -.00200 34.554 .60000 18.31350 .00950 .00490 .00000 10.357 5.83240 -.00970 -.00860 .00010 -.00220 10.367 48.107 .60030 17.37700 .01200 .00310 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT RUN NO. 676/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.70 BETAD ALPHAR BETA CY CLN CSL DY PHI ALPHAO ĐΖ MACH ĐΧ 5.87200 -.00890 -.00910 .00120 -.00149 18.91230 -.00490 .00530 .00000 14.565 7.759 .59950 10.920 .60050 18.69760 -.00170.00500 .00000 5.87010 -.01700 -.00430 .00120 -.00070 14.565 -.01090 .08439 .00000 5.86550 -.00210 -.00450 .00130 .00000 18.40910 14.575 15.111 .59950 -.01770 .00090 .00060 5.05910 -.60400 .00130 14.571 22.922 .60080 17.87690 .00150 .00000 .00050 14.590 37.645 .59910 16.86160 .60120 .00210 .00000 5.84840 -.01000 -.00290 .00080 15.81080 .01610 -.00130 .00000 5.84130 -.01000 .00020 .00060 -.00160 52.832 .59920 14,589 -.01740 .00240 -.00180 14.765 69.281 .60040 14.72650 .03240 -.00970 .00000 5.83540 .00120 .00000 .00000 .08080 .08090 .00000 GRADIENT .00000 .00000 .00000 .00000 .00000

			CARD	747/1	01 81	c	RBITER DATA		(CONO	AL 65 1 (5)	H 75 3
	REFERENCI	E DATA							PARAMETRIC	DATA	
SREF = 8 LREF = BREF = SCALE =	938.6800 IN. 938.6800 IN. 938.6800 IN.	YHRP	• .00	90 IN.XO 90 IN.YO 90 IN.ZO				ALPHAC = ELV-18 = ELEVON = EETAO = OX =	9.000 .000 5.000 .000	EETAC • ELV-08 • HACH = PHI • DY =	.000 3.000 .500 .000
		RUN NO.	633/ 0	RN/L =	3.23 GR	ADIENT INTER	VAL = -1.00	9/ 4.00			
ALPHAO 5.939 5.997 6.027 6.074 6.059 6.122	02 997 1.851 6.647 14.133 18.812 24.109 GRADIENT	MACH .59920 .59950 .60070 .55940 .60020 .60050	DX 1.93130 1.54240 .87960 15990 60660 -1.54470 13704	DY01440015100146001320012200078008025	6ETAO .01090 .00980 .00900 .00770 .00620 .00320	PHI .00000 .00000 .00000 .00000 .00000	ALPHAR 9.71490 9.71670 9.71750 9.71500 9.71600 9.71780 .00063	BETA .04650 .05580 .04770 .05480 .05470 .64700	CY .00050 .00060 .00020 .00070 .00070 .00060 .00004	CLH 00190 00170 00140 00120 00070 .00004	CSL 00280 00250 00230 00220 00200 00110
		RUN NO.	645/ 0	RN/L =	3.25 GR	ADIENT INTER	VAL = -1.00	3/ 4.00			
ALPHAO 10.289 10.303 10.323 10.355 10.431 10.459 10.464	02 -2.897 .265 4.651 12.183 27.416 42.296 47.714 GRADIENT	.60030 .60030 .60060 .60060	0X 65080 -1.07800 -1.67400 -2.70650 -4.81680 -6.88330 -7.63700	0Y01520010800144001300008700043000290	BETAO .09760 .00800 .00810 .00630 .00170 .00010 00120	PHI .00080 .00080 .00080 .00080 .00080 .00080 .00080 .00080 .00080	ALPHAM 9.73420 9.73240 9.73230 9.72550 9.71950 9.71470 9.71350	8ETA .05720 .04110 .04770 .04680 .05430 .05450 .05430	CY 00010 .00010 00030 00030 .00030 .00110 .00128 .00000	CLN 00040 00070 00060 00040 00000 00010 .00000	CSL 00450 00370 00330 00290 00230 00260 00250
		RUN NO.	644/ 0	RN/L =	3.28 GR	ADIENT INTER	VAL = -1.00	9, 4.00			
ALPHAO 14.701 14.691 14.599 14.714 14.743	D2 738 2.335 6.812 14.542 29.472 44.335	.60030 .60060 .59980 .60060	0X -2.01430 -2.43060 -3.04150 -4.10420 -6.16200 -8.22650	DY013100117001650018100105000360	8ETAO .00390 .00370 .00270 .00100 00310 00260	PHI .00000 .00000 .00000 .00000 .00000	9.76940 9.76740 9.76740 9.76110 9.75120 9.73740 9.72820	BETA .04100 .03260 .03970 .04640 .04580	00120 00130 00220 00250 00150	CLN .00090 .00090 .00140 .00140 .00040	00360 00320 00270 00060 .00080 00110
14.762	59.151	.60020 -	10.28770	.01310	00880	.00000	9.72010	.04650	.00280	.00070	00190

----

~.00007

.00000

-.00065 -.00273

-.00003

.00000

.00013

.00046

GRADIENT -.00007 -.13549



DATE OF DEC 75

the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract o

### TABULATED SOURCE DATA - CARD

CA20 747/1 01 51 ORBITER DATA (CGN058) ( 20 JUH 75 ) PARAMETRIC DATA REFERENCE DATA ALPHAC = 3.000 BETAC = .008 2690.0000 SQ.FT. XMRP 1109.0800 IN.XO ELV-IB = .000 ELV-08 = 3.000 YMRP .0000 IN.YO LREF 474.8100 IN. \* ELEVON = HACH .600 5.000 ZMRP 375.0000 IN.ZO BREF = 936.6800 IN. BETAO = .000 PHI .000 .0300 SCALE = DX 10.000 DY .000 GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.30 RUN NO. 634/ 0 CSL. CLN DY **BETAO** PHI ALPHAH BETA CY MACH ĐΧ **ALPHAO** DΖ 9.71230 .05720 -.00090 -.00230 -.00278 -2.155 .59920 12.18910 -.03110 .01749 .00800 5.917 9.71600 .04890 -.00130 -.00210 -.00240 11.76590 -.02859 .01660 .00000 .903 .60070 5.956 -.00190 -.00220 9.71450 .04800 -.00090 11.12250 -.02580 .01440 .00000 5.994 5.537 .59940 -.00210 10.12740 -.02420 .01290 .00000 9.71870 .04760 -.00080 -.00170 12.684 .60800 6.039 -.00140 -.00190 .00000 9.71600 .65510 -.00050 9.23370 -.02490 .01020 6.070 19.121 .59950 -.00190 .00000 9.71520 .05500 -.00060 -.00080 6.099 25.727 .59960 8.31400 -.02300 .00700 .00080 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 **ORADIENT** .00000 RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 691/ 0 DETAO **ALPHAH** BETA CY CLN CSL, ALPHA0 DZ HACH DΧ DY PHI 9.73900 -.00100 -.00350 .59940 9.39150 -.01990 .01790 .00000 .01070 -.00300 -2.770 10.217 -.01830 .01690 .00000 9.73760 .01010 -.00280 -.00110 -.00290 8.98730 10.225 .202 .60050 9.73910 .02890 -.00290 -.00090 -.00260 -.01770 .01580 .00000 10.258 5.005 .60030 0.31960 9.73430 -.00260 -.00060 -.00250 .00070 10.289 12.254 .60010 7.32340 -.01180 .01310 .00000 -.00200 .00000 .59960 5.23270 -.01300 .00800 .00000 9.72900 .01580 -.00220 10.356 27.323 -.00210 .59930 3.10580 -.00360 .00660 .00000 9.72690 .00060 -.80160 .00000 10.401 42.555 .00000 9.72320 .00840 -.00160 .00010 -.00200 -.00620 .00600 .60030 2.27610 10.410 48.530 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000 .00000 .00000 .00000 3.23 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 6951 0 RN/L = ALPHAH BETA CY CLN CSL DY BETAO PHI ОX **ALPHAO** DZ MACH 9.76440 -.00560 .00010 -.003%0 .01200 .00000 -.00290 -.01000 14.599 -.266 .59960 7.86010 .00000 9.76290 -.00620 -.00310 .00030 -.00290 .59960 7.47010 -.01020 .01100 14.597 2.610 9.75070 .00080 -.00350 .00040 -.00240 6.80220 -.01470 .01070 .00000 7.478 .600008 14.613 -.00460 .09110 -.00170 5.81800 -.02120 .00930 .00000 9.75250 .00770 .60030 14.633 14.672 -.01120 .00310 .00000 9.74240 -.00020 -.00390 30150 -.00030 14.673 29.795 .60000 3.73130 1.65330 -.01330 .00280 .00000 9.73500 .00790 -.00370 .00130 .00040 14.695 44.753 .59980 9.72990 -.00170 .00150 .00940 -.00880 -.00389 .00000 .00820 14.712 59.602 .60090 -.41850 .00000 -.08852 -.08021 -.00007 .00007 .00017 -.00935 GRADIENT -.08080 -.13563 -.00007

CA20 747/1 01 SI

ORBITER DATA (CGN057) ( 20 JAN 25 )

DCE	CDI	NC.	. DI	ATA
ᄣ			,	

PARAHETRIC DATA

LREF =	690.0800 SQ. 474.8100 IN. 936.6808 IN. .0300	YMRP	0	02.11 008 02.11 008 02.11 008				ALPHAC = ELV-1B = ELEVON = ESTAO = OX =	8.000 .000 5.000 .000 20.000	BETAC = ELY-08 = HACH = PHI = DY =	.000.E 000.E 000. 000.
		RUN 140	. 643/ 0	RN/L =	3.22 GRA	DIENT INTÉR	VAL = -1.0	10/ 4.60			
ALPHAD	DZ	MACH	ĐΧ	ĐΥ	BETAO	PHI	ALPHAH	BÉTA	CY	CLLN	CSL
5.918	-3.193	.60080	22.40390	02500	.01850	.00888	9.70870	.04980	00070	00280	00299
5.542	094	.60060	21.97440	02990	.01740	.00800	9.70250	.05580	00080	00260	00250
5.973	4.408	.60010	21.34678	02910	.01520	.00000	9.70590	.05610	08070	00220	00230
6.011	11.874	.69030	20.31020	02640	.01200	.00880	9.70990	.05540	00030	-,00160	00210
6.079	26.802	.60020	18.22890	01920	.00740	.00000	9.71150	.04720	.00000	00120	09160
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO	. 674/ 0	RN/L =	3.27 GRA	WIENT INTER	1.1- = JAV	30/ 4.00			
ALFHAO	ρz	MACH	DX	ĐΥ	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
10.226	-1.405	.59980	19.22120	.08080	.01770	.00000	9.73920	00550	00230	00170	~.00 <b>320</b>
10.235	1.641	.60850	18.80350	.00330	.01650	.00000	9. <i>1375</i> 0	31420	00280	00130	00276
10.253	6.023	.60050	18.19550	.00170	.01390	.00000	9.73650	09710	00230	00110	00250
10.290	13.703	.60070	17.13510	.00620	.01250	.00088	9.73300	01530	00230	000ED	09240
10.351	28.615	.59970	15.65830	.00700	.00860	.00000	9.73110	00770	00150	00020	00200
10.395	43.688	.60080	12.92800	.00900	.00590	.00000	9.72550	00750	00110	00020	00210
10.403	49.633	.59920	12.11970	.08980	.00450	.80860	9.72910	00730	00120	.08010	00210
••••	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.03020
		RUN NO	). 675/ D	RN/L =	3.27 GR/	ADIENT INTER	RVAL = -1.0	00/ 4.00			
ALPHAO	DZ	MACH	ОХ	ĐY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.444	1.517	.60060	17.56580	.01060	.01100	.00900	9.75870	02180	00220	00020	00330
14.457	4.549	.59960	17.14950	.08580	.08970	.00080	9.75720	01490	00240	.00000	00300
14.478	9.043	.59980	16.53140	08060	.00910	.00000	9.75430	00770	00290	.08030	00250
14.497	16.873	.60010	15.45500	.09340	.08640	.00000	9.74690	01590	00310	.00070	00200
14.563	31.919	.59990	13.36970	.00580	.00150	.00000	9.73960	01590	00280	.00150	001E0
14.607	46.722	.60030	11.30630	00570	.00080	.00000	9.73540	08030	003E0	.05160	00020
14.699	62,461	.59960	9.09770	.08820	00870	.00030	9.73250	00770	00190	.00220	.00000
11.000	GRADIENT	.00000	.00000	.08080	.80000	.00000	.00000	.00000	.00000	.00000	.00000

DATE OI DEC 75

TABULATED SOURCE DATA - CARD

(CGN058) 1 20 JAN 75

			CYSO	747/1	01 51	•	DRBITER DATA		ICGN05	6) (50 W	ו 75 א
	REFERENCE	DATA							PARAMETRIC	DATA -	
LREF =	690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	T. XHRP YHRP ZHRP	0	0X.N1 000 0Y.N1 000 0X.N1 000				ALPHAC = ELV-18 = ELEYON = BETAO = OX =	4.000 .000 5.000 .000	BETAC = ELY-08 = HACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO	. 775/ 0	RN/L =	3.33	GRADIENT INTE	RVAL = -1.0	0/ 4.00			
ALPHAO 10.536 10.526 10.524 10.524 10.536 10.542	0Z -1.419 1.326 5.838 13.085 28.495 43.191 47.091 GRADIENT	HACH .60030 .60030 .60070 .59950 .60020 .60090 .60080	DX .85680 .67100 .36640 12830 -1.17810 -2.18280 -2.45208 .60000	DY 9.98102 9.97800 9.97700 9.97800 9.98970 10.00100 10.00520 .00800	BET/ .021 .022 .019 .006 000 803 .000	00000 00000 00000 00000 00000 00000 0000	ALPHAR 5.83050 5.82840 5.81890 5.81440 5.80330 5.79600 5.79670 .00000	BETA .R1560 .02110 .00970 .00650 .01050 .01100 .00000	CY 00110 00110 00170 00220 00120 .00020 .00050	CLN 00120 00180 00170 00110 .00020 .00050 .00080	CSL 01040 00650 00700 00560 00390 00330 00320
ALPHAO 14.865 14.849 14.833 14.834 14.830 14.828	DZ 1.432 5.001 8.890 16.716 29.965 31.354 46.543 61.677 GRADIENT	HACH .60080 .60000 .60050 .60050 .60070 .60040 .60000	0x356606069087520 -1.41420 -2.32080 -2.41560 -3.46170 -4.59100	DY 9.94370 9.94940 9.95610 9.96810 9.98930 9.98990 10.00500 10.02160	B£T/ .016 .026 .016 .006 006 006	000 .00000 110 .00000 080 .00000 550 .00000 670 .00000 430 .00000 210 .00000	ALPHAM 5.86670 5.86350 5.85720 5.84460 5.82750 5.82630 5.81770 5.80820	9ETA .02570 .02250 .00920 .01190 00030 .00740 .00830 .01030	CY 60980 00790 00680 00160 00160 .00080 .00280	CLN .00330 .00120 .00060 .00050 .00080 .00080 .00150 .00000	CSL 00420 00230 00200 00300 00330 00330 003300

9.97480

9.90310

10,00810

10.02130

10.03040

-.000002

9.08900

8.56540

7.51480

6.48500

5.43920

-.08876

.60000

.60050

.60000

.60060

.60050

-.00803

.01440

.01020

.00090

-.00590

-.01380

.00155

.00000

.00000

.00000

.00000

.00800

.00000

5.88550

5.87810

5.86350

5.85260

5.85030

-.00114

-.00599

-.01910

-.02340

-.02250

-.00490

-.00117

-.00620

-.00560

-.00103

.00120

.00360

.00006

.00100

.00110

.00090

.00120

.00150

-.00054

-.00190

-.00060

-.00240

-.00260

-.00290

.00089

14.668

14.673

14.673

14.EB2

14.683

---

7.553

14.859

30.0E6

44.947

59.957

GRADIENT

---

DATE OI DEC 75

## TABULATED SOURCE DATA - CARO

-.00027

GRADIENT

PAGE 328 (CGN06Q) 1 20 JAN 75 1 ORBITER DATA 747/1 01 St CY50 PARAMETRIC DATA REFERENCE DATA ALPHAC = 8.000 BETAC .000 XHRP 1109.0000 IN.XO 2690.0000 SQ.FT. 3.000 .000 ELY-08 = ELV-18 -YMAP .000B IN.YO 474.8100 IN. LREF .600 ELEVON . 5.000 HACH 375.0000 IN.ZO 936.6800 IN. ZHRP BREF = .000 .000 PHI BETAO = .0300 SCALE = 10.003 .080 DY ĐХ GRADIENT INTERVAL # -1.00/ 4.00 RUN NO. 780/ 0 RN/L = 3.24 CSL. BETA CY CLLN ALPHAH BETAO PHI DY MACH ĐX DZ ALPHAD -.00350 -.01390 9.67770 .00770 .00930 .00000 -.78530 10.03920 .00520 .60010 10.362 -1.757-.01200 .01270 .00530 -.00320 .00000 9.67470 .61490 -1.13020 10.01360 .60050 10.375 .812 .00210 -.00300 -.01020 9.67280 .01040 .00000 .02190 .59910 -1.71630 9.99440 5.122 10.393 -.00820 .00750 -.00230 9.67120 -.00080 .02480 .00800 -2.71010 9.97970 .60010 10.433 12.363 -.00560 .00390 -.00140 -.00070 .00000 9.66450 .01500 -4.84220 9,98430 .59950 10.490 27.851 -.00430 .00020 .00540 ~.00100 9.65560 9.99200 .80710 .00000 -6.92130 42.980 .59990 10.511 -.00400 .02120 -.00100 .00040 .00000 9.65390 9.99030 .00520 -7.44810 46.793 .59930 10.512 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .80000 .00000 .00000 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 3.18 RUN NO. 787/ 0 RN/L = CSL CLN ALPHAH BETA CY PH1 **BETAO** DX DY DΖ HACH ALPHAO .00160 -.01210 .02650 .00130 9.69920 .00500 .00000 .60060 -2.12040 10.08190 14.755 .306 -.00930 -.00120 .00110 .02840 .01160 .00000 9.69540 9.98410 -2.51630 .59980 14.757 3.230 -.00720 .02280 -.00350 .00080 9.69090 .00000 .01720 .60080 -3.13560 9.96970 7.801 14.768 -.00450 .01890 -.00520 .00120 9.69370 .01620 .00000 -4.13630 9.96310 .60010 14.743 15.148 .00140 -.00440 9.69250 .01680 -.00589 .00800 9.96030 .01690 -4.17270 15.393 .60090 14.783 .00160 -.00110 -.00540 9.66770 .00970 .00000 9.96960 .00920 .60060 -6.21870 30.352 14.605 -.00120 .00150 -.00280 .00000 9.66150 .01090 9.98620 .00220 -8.27030 14.814 45.218 .60030 -.00240 .02060 .00090 .00160 9.65530 .00000 10.00840 -.00910 -10.34390 60.285 .60010 14.014 -.00017 .00096 -.00086 .00065 -.00096 -. 13541 -.00609 .00228 .00000

CA20 747/1 01 S1

ORBITER DATA

(CGN061) ( 29 JAN 75 )

OCE	COC	NCE	TA

SREF	-	2690.0000 9	EQ.FT.	XHRP	=	1109.0000	IN.XO
LREF	=	474.8108	N.	YMRP	=	.0000	IN.YO
EREF	=	935.6600 1	IN.	ZHRP	=	375.0000	IN.ZO
SCALE	=	.0380					

.005		BETAC	9.000	ALPHAC =	
3.000	=	ELV-08	.009	ELV-18 =	
.600	*	HACH	5.000	ELEVON =	
.000	-	PHI	.000	BETAO -	
10 000	_	nu .		5V -	

PARAHETRIC DATA

		RUN NO.	736/ 6	RN/L =	3.27 GRAI	DIENT INTER	WAL1.0	0/ 4.80			
ALPHAO	ĐZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
10.233	-3.822	.59980	9.54260	10.05490	.05500	.00000	9.72970	00820	.01890	GD38 <b>0</b>	01490
10.250	443	.59940	9.08310	10.02460	.01460	.00000	9.72840	00130	.80580	00350	~.01180
10.273	3.546	.60060	8.47950	10.00670	.02160	.00000	9.72760	00370	.00250	00340	01010
10.308	11.425	.59960	7.44960	9.99240	.02410	.00000	9.72290	00650	00868	00268	00820
10.370	28.395	.59930	5.36860	9.93710	.01400	.08000	9.72260	01060	00100	00090	00580
10.465	41.249	.60010	3.303B0	10.00370	.00630	.00000	9.71680	00950	00070	.00000	08450
10.417	47.343	.60010	2.45280	10.00480	.00340	.00000	9.71510	00120	08010	.09020	00430
	GRADIENT	.00027	~.13750	00408	.00159	.00000	00018	06055	00075	.00002	.00039
		RUN NO.	737/ 0	RN/L =	3.24 GRAD	DIENT INTER	YAL = -1.0	0/ 4.00			
ALPHA0	DZ	HACH	DX	DY	BETAO	PHI	ALPHAN	BETA	CY	CLN	CSL

ALPHA0	DZ	HACH	DX	DY	BETAO	PHI	ALPHAN	BETA	CY	CLN	CSL
14.551	-1.912	.69960	8.11220	10.04110	.00360	00000.	9.75230	01048	.00680	00010	01570
14.559	1.359	.60000	7.65560	10.02940	.01050	.00000	9.75390	00860	.00570	00170	01250
14.571	5.795	.59930	7.05740	10.00460	.01380	.00000	9.74870	.00140	.00170	00080	01030
14.596	13.276	.59550	6.02790	9.99330	.01360	.00080	9.74290	01128	60190	.00030	00710
14.628	27.980	.68690	3.99750	9.99600	.08470	.00000	9.73330	02110	00330	.00160	00300
14.652	43.114	.60090	1.89710	9.99740	00080	.00080	9.72630	01210	60328	.60190	03060
14.659	57.858	.60010	16040	10.01600	01010	.00000	9.72200	08990	00010	.00280	08040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.08000	.08080

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

TUTLE OF ST ORBITER DATA

(CGN062) ( 20 JAN 75 )

			CYSD	747/1	01 51	OF	BITER DATA		LCOMOSC	, , , ,	., ,
		_							PARAMETRIC	DATA	
	REFERENCE	DATA									
				٧٨				ALPHAC =	4.080	BETAC =	-5.006
	590.000 SQ.F			00 IN.XO				ELV-18 =	.000	ELV-08 =	3.000
	174.8100 IN.	YMRP	-	00 IN.YO				ELEVON =	5.000	MACH =	-600
BREF = S	38.6800 IN.	ZHRP	= 375.00	100 IN.ZO				BETAD =	.000	PHI =	.000
SCALE *	.0300							ox -	.000	DY =	.000
		RUN NO	. 649/0	RN/L =	3.23	GRADIENT INTER	VAL = -1.0	07 4.00			
		,				Dut	ALPHAH	BETA	CY	CLN	CSL
ALPHAO	DZ	MACH	ĐΧ	DY	BETAO		5.86240	-4.58170	01540	.00160	.00550
10.509	-1.137	.59940	.80340	1.02360	.0331	-	5.85990	-4.97100	01230	.00150	.00320
10.494	1.885	.59910	.60690	1.04180	.0265	•	5.85550	-4.97800	00720	00000	.00150
10.489	6.479	.60010	.29116	1.07360	.0156 .0058		5.05080	-4.97850	00310	.00078	.00020
10.492	14.163	.59930	23620	1.09950	0033		5.83810	-4.97200	.05020	.00060	00080
10.505	28.706	.59930	-1.23230	1.11960	0042	<del>-</del>	5.83380	-4.98120	.00110	.08040	09140
10.508	37.359	.59920	-1.82790	1.12640	0037		5.83110	-4.98850	.00130	.00020	00160
10.511	44.033	.59940	-2.28840	1.12900	.000	_	.00000	.00000	.00000	.00800	.00000
	GRADIENT	.00000	.00800	.00000	. 0000	.00000					
		RUN NO	. 648/ 0	RN/L =	3.23	GRADIENT INTER	14AL = -1.0	00/ 4.00			
			DX	DY	BETAC	) PHI	ALPHAH	BETA	CY	CLN	CST
ALPHAO	DZ	MACH	36760	.95890	.0215		5.88900	-4.94920	01020	.00080	.00370
14.815	1.009	.59980	59540	.96740	.0169		5.88950	-4.94670	~.00910	.00160	.00180
14.791	4.326	.60030	88820	.99440	.010		5.88650	-4.96920	08510	.00080	.00030
14.781	8.540	.60010	-1.39450	1.01820	.003		5.87180	-4.97950	08140	.08040	00090
14.774	15.930	.60900	-1.35750	1.04050			5.85690	-4.97430	.00230	.00830	00200
14.772	31.119	.59970	-3.47810	1.04640			5.84340	-4.97320	.09320	.00030	00250
14.770	46.183	.59930 .60080	-4.51880	1.06280			5.03610	-4.98050	.00500	.00080	00260
14.771	61.235	.00000	.00800	.00000			.00000	.00080	.0000	.00000	.00000
	GRADIENT	. 00000	.00000			-					

GRADIENT INTERVAL = -1.00/ 4.00 3.26 RN/L = RUN NO. 688/ 0 CSL CLN CY BETA ALPHAH PHI BETAG DY ĐΧ .00060 .00550 HACH -4.94670 -.01130 ALPHAO DZ 5.75210 .00000 .02050 1.81420 9.54500 .60130 .00420 .60040 -.01140 1.142 -4.95250 14.748 5.75270 .00000 .01890 1.81950 .00250 9.34440 .00090 .59970 4.240 -.00790 -4.97680 14.723 5.74690 .00000 .01430 9.05210 1.84460 .00930 .59970 .60070 -.00440 8.654 -4.97240 14.719 .00000 5.73890 .00800 1.86060 -.00050 B.54770 .00060 .59940 16.242 -4.98170 -.00130 14.719 5.72550 .00000 .00086 1.89230 7.56580 .00078 -.00110 .5995D -.00040 31.844 -4.9B1CO 14.721 5.71610 .00000 -.00130 8.54430 1.68790 -.60130 .59940 .00120 .00130 46.344 -4.98780 14.728 5.78940 .00000 -.00830 1.90280 .00000 5.55340 .00000 .59900 .00000 60.991 .00000 14.727 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

			CA20	747/1	01 SI	•	Of	RESTER DATA		(CCH06	1) (50 T	W 75 >
	REFERENCE	DATA								PARAMETRIC	DATA	
LREF =	690.0000 5Q.F 474.8100 IN. 936.6800 IN. .0300	T. XHEP YHEP ZHEP	00	00 IN.XO 00 IN.YO 00 IN.ZO					ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 .009 5.000 .000 20.000	BETAC = ELV-08 = MACH = PHI = DY =	-5.000 3.000 .600 .000
		RUN NO.	670/ 0	RN/L *	3.30	GRAD	IENT INTER	VAL = -1.0	10/ 4.00			
ALPHAO 10.318 10.322 10.343 10.354 10.379	0Z 3.700 6.553 11.191 18.631 33.918 49.230 GRADIENT	MACH .60010 .59970 .60090 .59990 .60090 .60020 .00080	OX 20.+1600 20.22210 19.89920 19.38810 18.33430 17.34840 .00000	DY 2.83640 2.83310 2.84400 2.84640 2.85720 2.86390 .00000	.01 .01 .00 .00	060 590 170 640 180 110	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.84730 5.84340 5.84120 5.83970 5.83370 5.82690 .00800	BETA -4:9940 -4:98520 -4:99390 -4:9850 -4:98860 -4:98840 .00000	CY 00530 00530 03410 00300 00110 .00010	CLN 00200 00090 00050 00020 00030 00040 00000	.00310 .00320 .00120 .00020 00090 00170 .00000
ALPHAO 14.501 14.504 14.508 14.516 14.524 14.529	DZ 7.815 11.048 15.519 22.987 38.017 52.676 68.431 GRADIENT	MACH .60010 .60020 .60040 .60090 .59990 .60080 .60030	0x 18.90670 18.69440 18.37620 17.96930 16.83330 15.82050 14.73000 .00000	0Y 2.72590 2.72740 2.73100 2.73860 2.74690 2.76460 2.77580	.00 .00 .00 .00 00	240 1960 1590 1130 1110	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAR 5.86040 5.85980 5.85970 5.85070 5.84180 5.83510 5.83000	95TA -4.98530 -4.98660 -4.98920 -4.98950 -4.98930 -4.98920 -4.98310	CY0055000540004900036000280 .00160 .00360	CLN 00050 .00000 .00060 .00050 .00050 .00120	CSL .00280 .00250 .00210 .00180 .00060 00180 00220

C+20	74711	01.4

ORBITER DATA

(CGN065) ( 20 JAN 75 )

FREN		

# PARAMETRIC DATA

EREF = 935.5800 IN. ZHRP = 375.0000 IN.ZO ELEVON = 5.000 HACH: = 5CALE = .0300 BETAO = .000 PHI =	000 000 000
RUN NO. 650/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00	
ALPHAO DZ MACH DX DY BETAO PHI ALPHAH DETA CY CLH	:SL
.0250 01250 0794.0- 04457.8 00000 06180. 02579. 00883 01893. 088.5- 265.01	08830
10.303 .275 .59920 -1.10310 1.02140 .06460 .00000 9.73380 -4.980200180000170	00430
	00160
10.366 12.206 .5950 -2.73470 1.11610 .01850 .0000 9.72900 -4.979200057000010	00010
- 00050 -4.89330 -4.89330 -1.1525000010 .00000 9.72430 -4.9734000050	09110
10.705 45.105 1,0000 0,00000 1,0000	00200
10.419 41.140 192010 1102000 1110200	09280
00000. 00000. 00000. 00000. 00000. 00000. 00000. TABIDARD	08080
RUN NO. 651/ 0 RN/L = 3.22 GRADIENT INTERVAL = -1.00/ 4.00	
ALPHAO DZ MACH DX DY BETAO PHI ALPHAN BETA CÝ CLN	<b>SL</b>
	03500
	00310
	00110
	00150
	00110
	.00080
- 01090. e8100. e3000. e5000. 00000. c0000. c0000. c00000.	18000

-

PAGE 335 TABULATED SOURCE DATA - CA20 DATE OF DEC 75 £ 20 JAN 75 3 (CGN056) ORBITER DATA 747/1 01 51 CVSD PARAMETRIC DATA REFERENCE DATA -5.000 BETAC = ALPHAC = 8.000 XMRP = 1109.0000 IN.XO 2690,0000 SQ.FT. SREE .000 ELY-08 = 3.000 ELV-18 = .0000 IN.YO YMRP . 474.8100 IN. LREF .600 HACH ELEVON \* 5.000 375.0800 IN.ZO ZMRP = 936.6800 IN. PHI .000 BETAO = .800 SCALE = .0300 10.000 DY .000 DX GRADIENT INTERVAL # -1.00/ 4.00 RUN NO. 690/ 0 RN/L \* 3.24 CSL CY CLN ALPHAH BETA BETAO PHI OY DX HACH ĐŽ **ALPHAO** .00730 -.02350 -.00380 9.75680 -4.99820 .07970 .00000 1.88080 .59930 9.36200 10.266 -2.705 -.01880 -.00220 .00440 -4.97970 9.73590 .00800 1.90700 .06110 8.95250 .60060 ,329 10.219 .00270 -.00120 -4.98670 -.01350 .00000 9.73540 .04190 1.94530 8.34240 4.772 .60000 10.243 .00060 -4.98620 -.00790 -.00040 9.73300 .00000 1.98070 .02420 7.29150 .60080 12.369 10.289 .00020 -.00080 -.00330 -4.99540 9.73050 .00890 .00000 2.01480 .59990 5.21050 10.356 27,344 -.00160 30000. 9.72630 -4.98720 -.00180 .00000 .00530 2.02090 42.540 .59940 3.09140 10.397 -.00180 -.00100 .00030 -4.98700 9.72420 .00300 .00000 2,02640 2.25840 .60000 48.511 10,407 .00000 .00000 .00000 .00000 .00800 .00000 .00000 .00000 .00000 .00000 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3,25 6897 0 RUN NO. CSL. CY CLN ALPHAH BETA BETAO PHI ĐΧ DY DZ MACH **ALPHAO** .00550 .00060 -4.95400 -.02340 9.76400 .05410 .00000 1.78020 7.86760 .59960 -.448 14,592 .00348 -.01780 .00050 9.76290 -4.95290 .00000 .04180 1.81260 ,60010 7.41550 2,900 14.594 .00060 .00200 -.01290 9.75780 -4.95500 .000080 1.84130 .03010 6.81330 .60030 7.309 14.610 .00100 .00110 -4.99580 -.00899 .00000 9.75460 .01770 1.88240 5.81930 14.529 .60000 14.636 .00060 -4.98070 -.00450 .00150 9.74490 .00000 .00380 3.70390 1.90670 .59980 29.855 14.677 .00130 .00060 -.00350 9.73540 -5,00370 .00160 .00000 1.92310 1.81159 .59970 14.699 44.920 .00160 .00020 9.77180 -4.98710 -.00090 .00000 -.00650 1.93410 .60060 -.45210 59.693 14.711 .00167 -.00003 -.00063 .00033 -.40033

.00965

-.13472

.00015

GRADIENT

-.00367

.00060

DAIL OF D	EC 13	INDU	WIED SOOUCE	: DAIN - CA	ÆU					C/A	AL 336
			CAR	747/1	01 51	c	RELTER DAT	A	£CGN08	7) (2 <b>9</b> J	AN 75 1
	REFEREN	CE DATA							PARAHETRIC	DATA	
	2890.0000 <b>SQ</b>			000 IN.XO				ALPHAC =	8.000	BETAC =	-2.000
LREF =	474.8100 IN	. YHR	·0	סץ.או פספו				ELV-18 =	.000	ELV-OB =	3.000
BREF =	936.6800 IN	. ZHRP	· = 375.0	3000 IN.ZO				ELEVON =	5.000	HACH =	.608
SCALE =	.0300							<b>■</b> 0A128	.000	PHI =	.000
								DX =	20.000	DY -	.000
ALPHAD	DZ	MACH	ĐΧ	DY	BETAG	PHI	ALPHAR	BETA	CY	CLN	¢sl.
10.219	-1.170	.60840	19.17340	2.82560	.05290	.00000	9.73230	-4.99720	01360	80450	.00508
10.227	1.973	. 59930	18.74300	2.83210	.03910	.00000	9.73270	<del>-4</del> .98830	01210	00230	.00350
10.253	6.418	.60050	18.12870	2.85480	.02700	.00000	9.73250	-4.95498	00890	00130	.00210
10.286	13.777	.59970	17.11080	2.87030	.01650	.00000	9.73808	-4.98660	00530	00070	.00050
10.356	28.938	.60080	14.99560	2.88840	.00590	.80080	9.72870	-4.98820	00220	.00000	08070
10.397	44.164	.59940	12.87230	2.69650	.00370	.00000	9.72290	-4.98880	00078	.00000	03160
10.406	49.620	.59970	12.11340	03968.5	.00120	.00000	9.71950	-4.98780	00030	.00020	00180
	GRADIENT	.00000	.00800	.00000	.00000	.00888	.00000	.00000	.00000	.88020	.00000

		RUN N	o. 672/ 0	RN/L =	3.28 GRA	DIENT INTER	IVAL = -1.6	00/ 4.00			
ALPHAO	DZ	MACH	DX	DY	BETAD	PHI	ALPHAH	BETA	CY	CLN	CSL
14.374	1.887	.59920	17.50970	2.70460	.03430	.00000	9.75470	-4.95350	01360	00140	.00330
14.386	5.002	.59960	17.08360	2.71260	.02630	.00000	9.75110	<b>-4.9</b> 4660	01080	00050	.00220
14,403	9.317	.60070	16.48890	2.74660	.01890	.00000	9.75120	-4.98660	00860	.00010	.00140
14.432	16.929	.60030	15.44000	2.76710	.01050	.00000	9.74480	-4.99620	00590	.00060	.00060
14.474	32.128	.68020	13.33650	2.77920	.00190	.00800	9.73740	-4.98890	00330	.00130	00040
14.499	46.955	.60020	11.26920	2.78500	00180	.00000	9.73650	-4.98880	00260	.00160	~.00020
14.362	60.738	.60070	9.37410	2.79800	00980	.00000	9.72720	-4.98790	00080	.08230	.00010
	GRADIENT	. മാരമാ	.00000	.00000	.00000	. 00000	. aanna	. กอกอก	annan	ennen	00000

DATE DI DEC 75

TABULATED SOURCE DATA - CA20

(CGN058) [ 20 JAN 75 1 CA28 747/1 01 51 ORBITER DATA PARAMETRIC DATA REFERENCE DATA -5.000 1109.0000 IN.XO ALPHAC = 4.000 BETAC 2690.0000 SQ.FT. XHRP ELV-18 = .000 ELY-08 = 3.000 .0000 IN.YO 474.8100 IN. YHRP LREF ELEVON -5.000 MACH .500 BREF ZHRP 375.0000 IN.ZO 936.6800 IN. BETAO = .000 PHI .000 SCALE = .0300 DX .000 DY 10.000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 775/ 0 RN/L = 3.29 CSL, DY BETAO PHI **ALPHAN** BETA CY CLN DX ALPHAO DΖ MACH -.00150 -.00420 .03330 .00000 5.82390 -4.98300 -.00640 -1.143 .69050 .82500 11.02580 10.528 -4.98350 -.00740 -.00100 -.00390 .00000 5.82210 1.191 .59940 .66590 11.02200 .03310 10.516 .02930 .00000 5.81590 -4.98570 -.00670 -.00070 -.00380 .36930 11.02810 .59990 10.514 5.578 -.00350 .01980 .00000 5.81020 -4.97390 -.00470 -.00020 10.520 13.286 .59990 -.15620 11.04100 -.00170 .00050 -.00290 -1.18298 11.06950 .00500 .00000 5.80160 -4.99410 10.530 28.364 .59970 -.00270 5.79490 -4.99160 .00020 .00160 -2.20400 11.08460 -.00370 .00000 .60020 10.538 43.310 5.79340 -4.99080 .00020 .00110 ~.00270 11.08530 -.00430 .00000 10.536 47.055 .60050 -2.45960 .00000 .00000 .00000 .80800 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 782/ 0 RN/L = 3.21 ALPHAH BETA CY CLN CSL DX DY BETAO PHI DZ HACH ALPHAD -4.98030 -.00010 -.01420 .00230 .03150 .00000 5.85610 -.39120 10.90410 14.852 1.732 .59980 -.00050 -4.98100 -.01230 .00140 -.59540 10.91290 .03110 .00000 5.85110 4.566 .59980 14.836 -4.97830 -.00920 .00080 -.00150 .02600 .00000 5.64790 .59930 -.88970 10.92830 14.828 8.860 -.08240 -4.98390 -.00560 .00080 .00000 5.83890 .59970 -1.41720 10.95100 .01650 14.824 16.510 -.00290 .00000 5.82350 -4.99490 -.60110 .00100 10.98190 .00210 .59940 -2.44000 31.452 14.826 .00130 -.00290 -4.99550 .00120 11.00070 -.00690 .00000 5.81640 46.605 .59980 -3.48110 14.825 .00160 -.00280 -.01520 .00000 5.80690 ~4.99090 .00330 11.01650 61,410 .60010 -4.49630 14.022 .00000 .00000 .00000 .00000 .00800 .00000 .00000 .00000 .00000 GRADIENT .00000

## ORBITER DATA

(CANOSS) ( 03 SEP 75 )

		DATA	

 SREF
 =
 2690.0000 SQ.FT.
 XMRP
 =
 1109.0000 IN.XO

 LREF
 =
 474.8100 IN.
 YMRP
 =
 .0000 IN.YO

 BREF
 =
 938.6800 IN.
 ZMRP
 =
 375.0000 IN.ZO

 SCALE
 =
 0300
 IN.ZO
 IN.ZO

## PARAMETRIC DATA

ALPHAC	-	4.000	BETAC		-5.000
ELV-18	•	.000	ELV-08	•	3.000
ELEVON	#	5.000	HACH	•	.600
BETAO	=	.000	PHI	•	.000
DX	•	10.000	BY	-	10.000

RUN NO.	0/0	RN/L =	3.24	GRADIENT	INTERVAL =	.007 12.00
---------	-----	--------	------	----------	------------	------------

ALPHAO	DZ	MACH	ΟX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.422	-2.280	.60090	10.86020	11.92480	.02940	.00000	5.86230	-4.99080	00250	00330	00330
10.405	1.098	.60050	10.63330	11.90880	.03080	.00000	5.86150	-4.99070	00640	00170	00330
10.409	5.675	.69910	10.31789	11.91340	.02640	.00000	5.85890	-4.89290	00500	00110	00 <b>340</b>
	13.013	.60030	9.81690	11.92200	.01880	.08000	5.85720	-4.98930	00460	00050	00330
10.422		.60030	9.76710	11.94740	.00440	.08080	5.64830	-5.00120	00140	.00050	00300
10.450	28.103		7.71670	11.95920	00230	.00000	5.64490	-4.99910	.08020	.00080	00280
10.460	43.255	.60000		11.96490	00580	.00000	5.64130	-4.99650	.00180	.00110	00290
10.461	46. <del>96</del> 7	.69980	7.46120	•			00057	00648	.00000	.08013	00002
	GRADIENT	00089	06892	.00100	00095	.00000	60057	00040	.00000		***************************************

RUN NO.	97.0	FN/L =	3.24	GRADIENT	INTERVAL =	.00/ 12.00

ALPHAO 14.693 14.666 14.674 14.676 14.680 14.681	DZ .236 3.450 8.165 15.415 30.037 45.279 69.630 GRADIENT	MACH .60030 .59990 .59970 .60030 .59960 .59979 .60010	0X 9.56110 9.34130 9.01260 6.51160 7.49850 6.44230 5.37930 05922	0Y 11.80380 11.79350 11.80250 11.83650 11.85690 11.87390 11.69030 00001	8ETAO .02130 .02210 .01790 .00960 00230 00980 01010	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.68510 5.99520 5.99170 5.97290 5.65430 5.85630 5.85630	BETA -4.98800 -4.98830 -4.98850 -4.99850 -5.01000 -5.00360 -4.99860 .00034	CY0093001180009600058000040 .60240 .00500	CLN .00070 .00150 .00130 .00120 .00120 .00130 .00160	CSL .00050 .00140 .00120 .00050 00210 00260 00300 .00008
--------------------------------------------------------------------	----------------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------	-----------------------------------------------------------------	-------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------	-------------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------------------

TABULATED SOURCE DATA - CA20

PAGE 339 DATE O1 DEC 75 1 20 JAN 75 1 (CGH070) ORBITER DATA CA20 747/1 01 SI PARAMETRIC DATA REFERENCE DATA -5.004 BETAC = B.000 ALPHAC \* = 1109.0000 1H.XO XHRP SREF - 2690.0000 SQ.FT. 3.000 .000 ELY-08 . ELV-18 = .0000 IN.YO YHRP 474.8108 IN. .600 HACH ELEVON = 5.000 375,0000 IN.ZO ZHRP BREF = 936.6800 IN. .000 BETAG = .000 PHI .0300 SCALE = .000 DY 10.500 DX -GRADIENT INTERVAL = -1.80/ 4.00 3.26 RN/L = RUN NO. 779/ 0 CSL. CLH CY BETA PHI ALPHAH **BETAO** DY DΧ MACH ALPHAO DΖ -.00679 -.00100 -.00400 -4.96870 .00000 9.67310 .03430 -.70020 11.07990 .60020 -2.449 -.00680 10.342 -.00400 -.00350 9.67390 -4.96980 .00000 .04050 11.06330 -1.14560 .60030 .833 10.363 -.00300 -.00580 -4.97940 -.00460 .00000 9.67190 .03940 11.06399 .60090 -1.77560 16.393 5.429 -.00610 -4.98290 -.08460 -.00190 9.66910 .03250 .00000 11.07080 -2.77410 12.730 .60070 10.426 -.00470 -.60039 -.00260 -4.98470 .00000 9.66510 .01510 11.69480 .60040 -4.87390 10,479 27.999 -.00390 .08040 -4.98200 -.03110 9.65760 .00000 .00500 11.11030 -6.92003 .60060 42.823 10.511 .08070 -.00370 -.00090 -4.9738D 9.65550 .00000 .00260 11.11160 -7.45478 .60000 10.514 46.832 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.19 RUN NO. 785/ 0 CSL CY CLN BETA PH1 ALPHAH BETAO DY DX DZ HACH ALPHA0 00040 -.00500 -.60850 9.69510 -4.97390 .00000 .03290 -2.11200 10.95930 .59910 .234 14.727 -.00450 -.01010 .00050 -4.97670 9.69350 .00000 .03560 10.95100 .60060 -2.52890 14.734 3.279 -.00400 -.01020 .00160 -4.96000 .00000 9.68840 .03220 -3.12530 10.95380 .60099 7,626 14.749 -.00310 .00130 -4.97890 -.08840 9.68090 .00000 .02370 -4.13640 10.96920 .60020 15.024 14.763 -.00570 .00160 -.00060 -5,00080 9.67220 .00890 .00000 10.99580 -6.23900 .65080 14.794 39.355 -.00120 .00180 -.00170 9.66110 -4.97740 .00000 -.60320 11.02160 .59910 -0.26930 45.083 14.799 -.00260 -4.97420 .00160 .00160 9.65630 .00000 -10.37530 11.04200 -.01020 60.265 ,60059 14.813 20000. .00039

.00089

-.00273

-.13688

.08649

**GRADIENT** 

.00000

-.08053

-.00053

-.00092

CAPB 747/1 DI SI ORBITER DATA (COMOTI) ( 20 JUN 75 )

			CVS	3 74771	01 21	•	RBITER DAT	A	(CONO)	11) (20 3	NH 779 )
	REFER	ENCE DATA							PARAPETRIC	DATA	
SREF = a	2690.0000	SQ.FT. XHRP	= 1109.0	000 IN.XO				ALPHAC =	8.000	BETAC =	-5.000
LREF =	474.0100	IN. YHRP	D .[	OY.NI 0881				ELV-IB =	.000	ELV-CB +	3.000
BREF =	936.6900	IN. ZHRP	= 375.0	1000 IN.ZO				ELEVON =	5.000	HACH .	.600
SCALE -	.0300							BETAO =	.000	PHI =	.000
								OX =	10.000	DY =	10.020
		RUN NO	. 740/ 0	RN/L =	3.25 GR	ADIENT INTER	NAL = -1.	00/ 4.00			
ALPHAD	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
10.224	-3.964	.59950	9.54340	11.98930	.02010	.00000	9.72770	-4.98500	.00390	00460	~.00560
10.249	-1.071	.59930	9.14788	11.96350	.03160	.00000	9.72740	-4.99230	00160	00380	00580
10.273	3.575	.59930	8.51140	11.95450	.03510	.00000	9.72430	-4.99380	00360	00350	005 <b>00</b>
10.307	11.249	.59930	7.45290	11.93080	.03020	.00000	9.72660	-5.08460	08400	00240	00580
10.375	26.103	.59980	5.39230	11.98210	.01390	.60000	9.72030	-5.09769	00180	00070	00490
10.407	41.260	.59940	3.28540	11.99630	.00440	.00000	9.71560	-5.00550	00020	.00000	00400
10.427	47.378	.59990	2.42810	11.99460	.00110	.00000	9.71360	-4.98920	.00840	.00920	00399
	GRADIENT	.00800	.00000	.00000	.00000	.00000	.00888	.00800	.00000	.00000	.00000
		RUN NO	. 741/ 0	RN/L =	3.24 GA	ADIENT INTER	WAL = -1.0	90/ 4.09			
ALPHA0	DZ	HACH	ĐΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.548	-1.395	.59950	8.03360	11.65890	.02640	.00000	9.75250	-4.98160	00260	00160	00770
14.553	1.311	.60060	7.66380	11.6509D	.02930	.00001	9.75100	-4.99080	00500	00110	00590
14.570	6.124	.60020	7.00200	11.65400	.02630	.00000	9.74580	-5.00250	00570	00030	00640
14.599	13.613	.59960	5.93860	11.85930	.01810	.00800	9.74180	-5.00110	00530	.00070	00510
14.637	28.816	.60080	3.86530	11.87690	.00400	.00000	9,73430	-5.00730	00390	.00180	00200
14.658	43.625	.60080	1.80890	11.89170	08480	.00000	9.72660	-5.00060	00210	.00210	00040

-.01270

.08088

.00000

.00000

9.72080

.00000

-5.00520

.000008

.00100

.00000

.00190

.00000

-.00040

.00000

14.668

58.608

GRADIENT

.60000

.00000

-.28100 11.91350

.00000

.00000

DATE OI DEC 75

### TABULATED SOURCE DATA - CA20

1 20 JAN 75 3 (CGH072) ORBITER DATA CARD 747/1 OI SI PARAHETRIC DATA REFERENCE DATA 5.000 ALPHAC = 4.000 BETAC \* XHRP = 1109.0000 IN.XO 2690.0000 SQ.FT. ELV-CB . 3.008 .000 ELV-IB = YHRP .0000 IN.YO 474.8100 IN. LREF -.600 HACH 375.0000 IN.ZO ELEVON = 5.000 ZMRP = BREF . 936.6800 IN. .000 HI .000 BETAO -SCALE -.0300 10.000 DY DX .000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 777/ 0 RN/L = 3.27 CLN C9. **BETAO** PHI **ALPHAH** BETA CY MACH DX DY DZ ALPHA0 -.00070 -.00360 -.01779 .00000 5.82950 5.04410 .04300 .82840 8.80620 -1.260 .60020 10.561 5.04880 .00000 -.00360 -.01413 5.82790 .65390 0.01240 .03520 .00000 .60070 10.547 1.334 -.00260 -.01070 .03050 .00000 5.82070 5.02710 -.00110 8.81490 .34760 5.878 .60010 10.536 -.00160 -.00780 -.00200 8.81520 .02440 .00000 5.81370 5.02260 .60030 -.13900 10.536 13.042 -.00500 5.80310 5.03420 -.60180 -.00010 0.02060 .01180 .00000 .60030 -1.15930 28.032 10.541 5.79570 5.03470 -.00890 .00840 -.00380 .00450 .00000 -2.23230 8.83030 .59990 10.562 43.597 .00060 -.00360 -.00070 .00000 5.79470 5.03489 .00240 .60050 -2.46160 0.83200 10.545 47.071 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 783/ 0 RN/L = 3.21 BETA CY CLN CSL. ALPHAH **BETAO** PHI DY ALPHAO ΟZ HACH ĐΧ .00270 -.01140 5.00070 -.00960 5.86770 -.39220 0.87450 .03220 .00000 .60010 14.885 1.680 .00100 -.00780 .00000 5.86470 5.01010 -.00660 .02700 -.60880 8.88830 4.767 .59920 14.865 -.00430 5.01040 +.00740 .00100 5.85730 .02380 .00000 8.930 .59950 -.89480 8.88570 14.851 .00030 -.00350 4.99900 -.00488 8.90170 .01880 .00000 5.84480 .59930 -1.41280 14.843 16.495 4.97960 →.00250 .00070 →.00310 .00830 .00080 5.82820 -2.44310 8.92270 14.833 31.538 .60060 -.00310 -.00010 .00090 .00860 5.81730 4.98730 8.93760 -.00030 .60030 -3.48380 14.829 46.682 .00130 -.00310 5.81000 4.98860 .00160 9.95050 -.00770 .60600 -4.51590 61.660 .59980 14.822 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000

.59920

.00006

45.437

60.598

GRADIENT

14.676

14.674

5.39480

-.06823

8.09960

.00009

-.00310

.00115

.00130

-.08821

.08420

.00012

5.00380

.00054

			CAZO	747/1	OI SI	0	RBITER DATA		(CGN07	3) (30 Ju	L 75 1
	REFERENC	E DATA						1	PARAHETRIC	DATA	
								ALPHAC =	4.600	BETAC .	5.000
SREF . 8	690.000 <b>0 50.</b>			000 IN.XO				ELY-18 =	.000	ELY-08 -	3.000
ga. 1 par	474.8100 IN.			000 IN.YO				ELEVON =	5.000	HACH =	.600
BREF *	936.6880 IN.	ZHRP	= 375.0	080 IN.ZO				BETAD #	.000	PHI =	.000
SCALE -	.0300						-	DX =	10.080	DY =	10.000
		RUN NO	. 743/8	RN/L =	3.24 GRA	DIENT INTER	YAL1.0	9/ 4.00			
		****	ОX	DY	BETAD	PHI	ALPHAH	8ETA	CY	CLN	CSL
ALPHAO	DZ	HACH	10.85340	7.94940	.03880	.00000	5.86640	5.03030	00020	00340	01930
10.456	-2.278	.60010	10.63180	7.95910	.03240	.00000	5.83880	5.01890	02809.	00340	01470
10.441	.974	.59990	10.331420	7.95140	-02870	.00000	5.89360	5.08590	00840	00250	01120
10.437	5.632	.6000D .60040	9.81390	7.96130	.02890	.00000	5.85910	5.08010	00120	00178	08810
10.440	12.947	.59990	9.01338 9.75740	7.99870	.00920	.00000	5.84940	4.69630	08090	08030	00510
10.454	28.272 43.215	.02920	7.72040	7.97210	.00210	.00000	5.84560	5.80416	00030	.00050	00390
10.462	46.952	.60080	7.46360	7.97530	00040	.00000	5.84240	5.00430	.00020	.00070	00370
10.464	GRADIENT	.00000	.00000	.00000	.00000	.00000	.08000	.00000	.00000	.00000	.02080.
		RUN NO	. 746/ 0	RN/L =	3.23 GR/	DIENT INTER	RVAL = -1.0	197 4.00			
			DX	DY	BETAD	PHI	ALPHAH	BETA	CY	CLN	CSL
ALPHAD	02	MACH	9.56478	B.04510	.01920	.00000	5.89040	5.01680	00530	.00240	01250
14.699	.681	.60070		8.04540	.01660	.00000	5.88440	5.01860	00490	.00170	00870
14.686	3.398	.60090	9.33840 9.01750	8.04550	.01310	.00000	5.87840	5.01900	00460	.00130	80530
14.677	8.089	.59980		8.04890		.00000	5.86910	5.00690	00490	.09150	00240
14.677	15.482	.68080	8.51410	8.06590		.00000	5.85560	5.00270	00150	.00120	00200
14.674	30.336	.59928	7.49140	8.08710		.00000	5.84830	4.99500	.00160	.00110	00290
14.676	45,437	.59990	6.44350	8.00/10					000.20	00130	- 88310

-.01450

-.00078

.00000

.00800

5.83970

-.00181

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

ORBITER DATA

COMOTO 1 20 HM 25 1

			CA2D	747/1	01 SI	C	ORBITER DATA	•	(CONO7	4) (20 J	N 75 )
	refere	ENCE DATA							PARAMETRIC	DATA	
	936.6800 1 936.6800 1 936.6800 1	In. YHRP	08	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	8.000 .000 5.000 .800	BETAC = ELV-OB = MACH = PHI = DY =	5.000 3.000 .600 .000
		RUN NO	. 778/ 0	RN/L =	3.27 6	RADIENT INTER	RVAL # -1.0	B/ 4.00			
ALPHAD 10.386 10.382 10.404 10.446 10.484 10.507 10.510	0Z -2.569 .494 5.444 12.879 27.855 42.785 46.810 GRADIENT	MACH .60000 .5999D .59920 .60860 .80070 .60090 .59970 .00000	OX 67920 -1.09610 -1.77530 -2.79560 -4.65200 -6.91030 -7.47130 .00000	0Y 8.78930 8.79940 8.79630 8.78530 8.77840 8.78230 8.78620 .00080	BETAO .04720 .03450 .02930 .02760 .01750 .01070 .00000	.00000 .00000 .00000 .00000 .00000	ALPHAN 9.67710 9.677430 9.67330 9.67050 9.66630 9.66900 0.0000	BETA 5.05610 5.04960 5.02910 5.02490 5.03990 5.03980 5.04000 .00000	CY .00480 .00510 .00289 .00030 00160 00150 .00000	CLN 00640 00530 00400 00290 00090 00010 .00030	CS. 02330 01810 01380 01030 00550 00470 00440
ALPHAO 14.769 14.763 14.765 14.776 14.801 14.812 14.809	07 .421 3.277 7.611 14.897 30.095 45.241 60.161 GRADIENT	MACH .69030 .69030 .69040 .59960 .60030 .60060 .60050	0X -2.15370 -2.53970 -3.12710 -4.11930 -6.19610 -8.28580 -10.35530 13515	9Y 8.90200 8.89780 8.88370 6.86850 8.86880 8.87710 8.90350 00147	BETAO .01960 .01760 .01759 .01660 .01090 .00540 00530	00800. 00800. 00800. 00000. 00000.	ALPHAH 9.69950 9.69940 9.69640 9.67900 9.66900 9.66320 9.65980 00179	8ETA 5.01660 5.00270 4.99670 5.00080 4.99280 4.99950 4.99330 00487	CY .00270 .00130 00160 00460 00550 00360 .00040 00049	CLN .00620 .00600 .00660 .00130 .00140 00007	CSL 01970 01470 01020 00520 00170 00120 00260

(CON075)

( 20 JUN 75 )

14.629

14.652

14.658

28.063

42.937

57.817

GRADIENT

.59950

.60070

.59350

.00000

3.97810

1.91620

-.15670

.00000

ORBITER DATA CA20 747/1 01 SI

PARAMETRIC DATA REFERENCE DATA BETAC -5.000 ALPHAC . 0.000 XHRP - 1169.0000 IN.XO SREF - 2690.0000 SQ.FT. 3.000 ELV-18 -.000 ELV-08 = .0808 IN.YO 474.8100 IN. YHAP LREF ELEVON = HACH .600 5.000 BREF = 936.6800 IN. ZHRP 375.0000 IN.ZO .000 BETAO = .000 PHI .0300 SCALE = DX = 10.000 DY 10.000 RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 744/ 0 CLH CSL BETA CY DATES PHI ALPHAH MACH DΧ DY ALPHA0 ÐΖ -.00648 -.02550 .05488 .08090 9.71810 5.02020 .08280 9.60240 7.92050 -4.295 .59980 10.291 -.00550 -.01900 9.72130 5.02130 .00490 .03580 .00000 8.14600 7.93920 10.264 -1.016 .60000 -.00450 -.01500 9.71870 5.02420 .00370 3.234 .60090 8.56250 7.93260 .03009 .00000 10.296 9.71900 5.01130 .00130 -.00330 -.01100 7.54070 7.92720 .02580 .00000 10.553 .66020 10.325 -.00700 5.00840 -.00020 -.00130 .01500 .00000 9.71380 7.92620 10.391 26.076 .59950 5.40030 -.00510 9.70970 5.00110 -.00030 -.00040 3.33920 7.93180 .00330 .00000 40.921 .60020 10.421 9,70550 5.00900 .08030 -.00010 -.00460 7.93360 .00400 .00000 .59990 2.44250 47.391 10.429 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .000000 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 745/ 0 ALPHAR BETA CY CLN CSL HACH OX DY BETAC PHI DZ **ALPHAO** -.00130 -.02490 5.02630 .00880 9.74680 .60010 8.69210 8.66760 .01710 .00000 14.593 -1.682 .00000 9.74410 5.01250 .00660 -.00140 -.01910 .01580 1.393 .59950 7.64570 8.86130 14.579 .00310 -.00050 -.01448 9.74010 5.01420 .60840 7.65378 8.04400 .01390 .00000 14.585 5.735 -.00930 -.00010 .00040 6.05200 8.03060 .01140 .00000 9.73450 5.00960 .60640 14.601 12.961

.00320

-.00220

-.08950

.00000

0.02230

8.02770

9.04120

.00000

.00000

.00000

.00080

.00000

9.72720

9.71930

9.71390

.00000

5.00640

4.99980

5.00110

.00000

-.00280

-.00260

-.00020

.00000

.00180

.00200

.00200

.00000

-.00380

-.00100

-.08048



DATE OI DEC 75

TABULATED SOURCE DATA - CA20

PAGE 3H5

			CYSO	74771	01 51		O	RBITER DATA		tCGH07	8) (20 J	AN 75 I
	REFEREN	CE DATA							1	PARAHETRIC	DATA	
LREF =	690.0000 50 474.0100 IN 936.6000 IN	. YHRP		10 1N.XO 10 1N.YO 10 1N.ZO					ALPHAC = ELV-18 = ELEYON =	4.000 .000 5.600	BETAC = ELV-08 = HACH =	-5.066 3.000 .600
SCALE =	.0300								BETAO =	.000	PHI = DY =	7.500 -000
		RUN NO.	700/ 0	RN/L =	3.24	GRADI	ENT INTER	VAL1.0	0/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETA	AO OA	PHI	ALPHAH	BETA	CY	CLH	ÇSL.
10.498	-1.277	.59980	.83250	1.15460	, 36 <sup>1</sup>		7.50000	5.83850	-5.05480	01880	.00100	.06949
10.489	2.021	.60000	.61190	1.10340	.354	490	7.50000	5.03680	-5.04370	01470	.00080	.00518
10.492	6.318	.68080	.32120	1.21560	.345	580	7.50000	5.83320	-5.04780	01030	.00030	.00420
10.500	13.726	.60020	~.18460	1.24350	.338	660	7.50000	5.82810	-5.04000	00660	.00030	.00250
10.510	28.683		-1.20160	1.27850	.321	710	7.50000	5.81510	-5.04710	00300	.00030	.09040
10.516	43.777		-2.23760	1.28820	.326	628	7.50000	5.80850	-5.04020	60170	.00000	00100
10.513	47.275		-2.47710	1.29290	.32	410	7.50000	5.80880	-5.04010	00120	.00000	00120
10.3.3	GRADIENT	.00000	.00000	.00000	.001	000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO.	699/ 0	RN/L =	3.25	GRAD	IENT INTER	WAL = -1.0	10/ 4.00			
ALPHAO	DŽ	HACH	DX	DY	BETA	AO	PHI	ALPHAH	BETA	CY	CLN	ĊSL.
14.757	1.908	.59900	38000	1.14030	.90		7.50000	5.86610	-5.05330	01950	00100	.00438
14.746	4.533	.59970	55960	1.15770	.89		7.50000	5.86300	-5.04270	01640	00130	.00310
14.741	9.089	.59940	87360	1.17880	.89	010	7.50000	5.85990	-5.04130	01310	60148	.00160
14.735	16.707		-1.39380	1.20160	.88		7.50000	5.84940	-5.04330	00990	00150	.00000
14.734	31.718		-2.41740	1.22950	. 87		7.50000	5.83020	-5.04070	00640	00160	00150
14.739	48.644		-3.44230	1.23390	.87		7.50000	5.81970	-5.04800	00720	00100	00030
14.739	61.610		-4.47430	1.24610	.96		7.50000	5.81480	-5.03960	00580	00050	00060
17.735	GRADIENT	.00000	.00000	.00000		080	.80880	.00000	.00000	.00000	.00000	.00000

-.00340

.00000

-.00160

.00000

14.693

61.170

GRADIENT

5.39730

.00000

.59910

.00000

2.08888

.00000

CA20 747/1 01 St

ORBITER DATA

(CGH077) ( 20 JAN 75 )

## DIDANCTOIC DATA

	referen	CE DATA							PARAHETRIC	DATA	
SREF = 2	690.0000 50	.FT, XHRP	= 1109.0	000 IN.XO				ALPHAC =	4.000	BETAC =	-5.000
	474.8100 IN	. YHRP	• .0	1000 IN.YO				ELV-18 =	.000	ELV-08 =	3.000
BREF =	935.6800 IN	. ZHRP	- 375.0	1980 IN.ZO				ELEYON =	5.000	HACH ·	.600
SCALE =	.0300							BETAO =	.000	PHI =	7.508
								OX =	10.000	DY =	.000
		RUN NO.	879/ O	RN/L =	3.29 GRA	DIENT INTER	VAL = -1.0	00/ 4.00			
ALPHAO	DZ	MACH	ĐΧ	DY	BETAO	PHI	ALPHAN	BETA	CY	CLN	CSL
10.372	-2.105	.60020	10.86710	2.01610	.34580	7.50000	5.85010	-5.00500	01420	00140	.01230
10.367	1.060	.59990	10.65570	2.02110	.34160	7.50000	5.84920	-4.98530	01450	.08840	.00840
10.367	5.691	.60070	10.34240	2.05170	.33240	7.50000	5.84990	-4.98100	08990	.02020	.08575
10.399	13.253	.60030	9.82060	2.08120	.32670	7.50000	5.84450	-4.98760	00640	.00010	<b>.00340</b>
10.411	28.258	.60010	0.78850	2.11400	.31800	7.50000	5.83790	-4.98730	~.00250	.02030	.00080
10.422	43.330	.59990	7.75290	2.12730	.31760	7.50000	5.82940	-4.98850	08080	00020	00090
18.423	48.502	.59940	7.39550	2.13120	.31640	7.50000	5.82760	-4.98840	08040	00020	00110
	GRADIENT	.00809	.00000	.00000	.00000	.00000	.00800	.00000	.00000	.08080	.00000
		RUN NO.	690/ 0	RN/L =	3.28 GRA	DIENT INTER	WAL = -1.0	80/ 4.60			
ALPHAO	DZ	насн	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CST
14.684	.874	.60040	9.54560	1.96400	.69390	7.50000	5.87640	<del>-4</del> .96588	01640	00270	.00650
14.567	4.232	.69010	9.31860	1.98550	.00830	7.50000	5.87720	-4.96930	01390	00210	.00370
14.662	8.405	.69050	9.03360	2.01180	.88290	7.50000	5.87440	-4.98210	01040	00230	.00110
14.663	16.057	.60090	8.51080	2.03990	.87710	7.50000	5.86600	-4.59860	00710	00230	00130
14.658	30.959	.59980	7.48720	2.05978	.87070	7.50000	5.85230	<del>-4</del> .98160	00360	08250	00300
14.672	45.936	.59930	6.45690	2.06910	.86960	7.50000	5.84070	-4.98100	00290	00240	00350
-							C 03000		66778	00100	- 00300

7.50000

.00000

.86400

.00000

5.83590

.00000

-4.98920

.00000

-.00230

DATE 01 DEC 75

**GRADIENT** 

.00000

.00000

.00000

.00000

.00000

.00000

### TABULATED SOURCE DATA - CARD

ORBITER DATA CA20 747/1 01 S1 (CGN078) | 20 JAN 75 | 1 REFERENCE DATA PARAHETRIC DATA XHRP = 1169.0000 IN.XO ALPHAC = 8.000 BETAC = SREF = 2690.0000 SQ.FT. -5.000 ELY-18 -ELV-08 = LREF = 474.8100 IN THEF .0000 IN.YO .000 3.000 BREF = 936.6800 IN. ZHRP = 375.0000 IN.ZO ELEVON = 5.000 HACH .600 BETAO = .080 PHI 7.500 SCALE = .0300 ΟX .000 DY .080 RUM NO. 701/ 0 RN/L = 3.22 GRADIENT INTERVAL = -1.00/ 4.00 DY BETAO PHI ALPHAH BETA CLH CSL HACH ĐΧ CY **ALPHAO** ĐΖ .39300 -.83310 1.00330 7.50000 9.69190 -5.64570 -.02530 .01278 10.301 -1.522 .59970 -.00149 .37340 7.50000 9.69140 10.323 1.720 .59990 -1.27100 1.13320 -5.04160 -.01960 -.00060 .00970 10.358 6.033 .60060 -1.96190 1.18510 .35640 7.50000 9.69140 -5.04780 -.01370 -.00030 .00730 10.598 15.288 .59980 -3.12410 1.24460 .33730 7.50000 9.68470 -5.03900 -.00740 .00010 .00410 28.550 .50080 -4.95350 1.29230 .32740 7.50000 9.68130 -5.04800 -.00350 .00030 .00140 10.452 .59990 -7.04370 1.31350 .32720 7.50000 9.67630 -5.04730 -.00190 .00800 -.00030 10.485 43.635 10.490 47.136 .60050 -7.52840 1.31640 .32660 7.50000 9.67520 -5.03940 -.00150 .00000 -.00060 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000 .00000 .00000 .00000 RUN NO. 598/ 0 RN/L = 3.31 GRADIENT INTERVAL = -1.00/ 4.00 MACH BETAO PHI ALPHAH BETA CSL ALPHA0 DZ DX DY CY CLH .92630 9.67920 .60080 -2.26150 1.07140 7.50000 -5.05090 -.02910 -.00090 Q#20B. 14.639 1.551 14.646 4.440 .59940 -2.65160 1.10830 .91390 7.50000 9.67710 -5.04860 -.02410 -.00090 .00760 -3.26780 1.14300 .90190 7.50000 9.67380 -5.02670 -.01940 -.00090 .00590 14.662 9.007 .68060 .60000 -4.31660 1.19170 .88790 7.50000 9.86390 -5.0508D -.01480 -.00050 .00370 14.679 16.752 14.701 31.550 .60040 -6.33690 1.23600 .87700 7.50000 9.64870 -5.03090 -.00940 -.00110 .00150 .87320 14.713 46.466 .60000 -8.39580 1.26140 7.50000 9.64450 -5.04770 -.00690 -.00120 -.00070 -10.46660 9.63920 -5.04710 -.00490 14.722 61.470 .60040 1.28150 .85640 7.58880 -.00080 -.00140

.00000

.00000

.00000

PAGE 347

14.668

58.633

GRADIENT

.59980

-.00004

-.23580

-.13342

2.09830

.01299

CA20 747/1 01 S1

ORBITER DATA

( 25 HAL 05 )

REF			TA

# CE DATA PARAMETRIC DATA

SCALE = .0300	.690 .590 .000
ALPHAQ DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN	CSL.
10.182 -3.146 .59980 9.44330 1.93730 .37820 7.50000 9.72010 -4.996200241000280	.01600
10.201191 .60050 9.04330 1.97280 .36380 7.50000 9.72230 -4.992300211000090	01190
10.223 4.392 .60020 8.42140 2.02160 .34460 7.50000 9 72000 -4.997600149000020	.00890
10.263 11.935 .60030 7.39169 2.06980 .32870 7.50000 9.71950 -4.9789000900 .00010	.00820
10.337 26.649 .59930 5.31290 2.12680 .31790 7.50000 9.71460 -4.9959000360 .00040	.00250
10.377 42.008 .60020 3.80820 2.14560 .31730 7.50000 9.70990 -4.980200014000010	.00030
0001000050000100001000010000100001000010	.00040
00000. 00000. 00200. 00000. 00000. 00000. 00000. 00000. TABIDARD	.00000
RUN NO. 681/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00	
ALPHAO DZ HACH DX DY BETAO PHI ALPHAN BETA CY CEN	CSŁ.
14.540899 .60080 7.97090 1.87070 .91980 7.50000 9.74650 -4.971500319009130	.01430
14.639   1.681   .60070   7.62670   1.90420   .90820   7.50000   9.74960   -4.96080   -4.96080   -6.02730   -6.02730	.01080
14.550 5.191 .59980 7.01630 1.94450 .69580 7.50000 9.74300 -4.948700212000080	.00770
14.577 13.668 .60030 5.99450 2.06570 .60320 7.50800 9.73710 -4.989700153000070	.00470
14.626 28.859 .60080 3.90510 2.06670 .86940 7.50000 9.72640 -4.995300086000870	.00150

.86650

-.08450

7.50000

.00000

9.71490

.00120

-4.98000

.00415

-.00460

.00178

-.00150

.08923

-.00080

-.00136

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

			CY50	747/1	01 51	۵	RBITER DATA	<b>\</b>	(CGN08	01 (50 T)	N 75 1
	REFER	ENCE DATA							PARAHETRIC	DATA	
SREF = 20	690.0800	SQ.FT. XHRP	= 1109.00	00 IN.XO				ALPHAC =	4.000	BETAC =	-5.000
	474.8108		<b>-</b> .00	00 IN.YO				ELV-18 =	.000	ELV-08 =	3.000
	936.6800	•		100 IN.ZO				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAO =	.000	PHI =	7.500
JONEL -	10000							ĐX =	.000	DY =	10.000
		RUN NO	. 791/0	RN/L =	3.34 GF	RADIENT INTER	VAL = -1.6	10/ 4.00			
ALPHAO	DŽ	HACH	DХ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.543	.273		.69350	11.14360	.36720	7.50000	5.84270	-4.98690	01000	00140	00050
10.537	3.154		.49810	11.15020	.36560	7.50000	5.84120	-4.97990	00910	~.00150	00100
10.543	7.602		. 19640	11.16160	.36070	7.50000	5.03540	-4.97360	00780	00130	00140
10.546	14.948		30580	11.18160	.35240	7.50000	5.83280	-4.98370	00630	08070	00150
10.563	30.456		-1 36340	11.21710	.33670	7.50000	5.02120	-4.98510	00290	.0000	00180
10.569	45.266		-2.39270	11.23800	.33050	7.50000	5.81720	-4.98950	00100	.00020	00210
10.573	47.765		-2.55600	11.24380	.32880	7.50000	5.81590	-4.99680	00060	.00030	00210
10.0.0	GRADIENT		06781	.00229	00056	.00000	00052	.00243	.00031	00003	80017
		RUN NO	. 792/ 0	RN/L =	3.33 GF	RADIENT INTER	WAL = -1.0	00/ 4.00			
ALPHAO	DZ	HACH	DΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
14.693	2.086	.60808	37990	11.09210	.90280	7.50080	5.87000	-4.98910	02230	.00010	.00250
14.684	4.780	01078.	56200	11.09160	.90090	7.50000	5.87020	-4.98190	02810	00070	.00200
14.679	9.002	.60080	86020	11.10680	.89490	7.50000	5.86130	-4.96840	01570	08110	.00070
14.683	16.383	.60070	-1.37540	11.13310	.88490	7.50000	5.85650	-4.99530	01300	00110	00050
14.691	31.443	,59920	-2.41210	11.16780	.87000	7.58000	5.83990	-4.99270	00790	00090	-,00160
14.694	46.562	.59940	-3.45170	11.18970	.86380	7.50000	5.82940	-4.99250	+.00530	00100	00220
14.693	61.369	.59950	-4.4768D	11.20770	.85570	7.50000	5.82430	-4.99120	00260	00100	00260
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

			CAZO	747/1	01 S1	(	RBITER DATA	A	CCCHOS	II) (20 J	AN 75 →
	REFERE	INCE DATA							PARAHETRIC	BATA	
	2690.0000 9		= 1109.0	600 IN.XO				ALPHAC =	4.000	BETAC -	-5.000
LREF =	474.8100 I			000 IN.YO				ELY-IB =	.000	ELV-OB =	3.000
eref =	936.6BDO !	IN. ZMRP	- 375.0	000 IN.ZO				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAQ -	.000	PHI •	7.500
								DX =	10.000	DY =	10.000
		RUN NO.	752/ 0	RN/L =	3.25	GRADIENT INTER	IVAL = -1.0	00/ 4.00			
ALPHAO	DZ	MACH	DX	DY	SETA	O PHI	ALPHAH	BETA	CY	CLN	CSL
10.346	-1.602	.60090	10.84680	11.99480	.3763	30 7.50000	5.85440	-4.97960	01120	00140	.00120
10.345	1.482	.69069	10.63530	12.00080	. 3755	50 7.50080	5.65620	-4.99010	01070	00140	.08040
10.354	5.906	.60020	10.33290	12.01730	.3708	30 7.50000	5.85220	-4.98920	00890	08130	08030
10.391	13.318	.60050	9.81780	12.03110	.3655	50 7.50000	5.84870	-4.98360	00710	00080	00100
10.403	28.645	.60020	8.76420	12.05720	.3516	30 7.50000	5.64180	-4.89350	00370	.00010	00160
10.412	43.525	.59940	7.73690	12.08630	. 3448	30 7.50000	5.03600	-4.99070	00150	.00030	00210
10.415	47.221	.60020	7.48460	12.08790	.3424	+0 7.50000	5.83250	-4.88240	00110	.00050	00210
	GRADIENT	.00000	.00000	.00000	.0000	00000. 00	.00000	.00000	.00000	.00000	.00000
		RUN NO.	755/ 0	RN/L =	3.25	GRADIENT INTER	VAL = -1.0	00/ 4.00			
ALPHAO	OZ	MACH	DX	DY	BETAC	) PHI	ALPHAH	BETA	CY	CLN	CSL
14.608	240	.60090	9.64110	11.90700	.9239	7.50000	6.87640	-4.97970	02440	.00080	.00320
14.598	2.722	.60030	9.43840	11.92140	.9250	7.50000	5.87630	-4.98890	02190	00060	.00270
14.593	7.480	.60030	9.11160	11.93390	.9203	10 7.50000	5.87390	-4,98370	01940	00100	.00250
14.598	14.602	.60090	8.62320	11.95990	.9123	7.50000	5.86660	-4.99540	~.01580	00100	.00110
14.613	29.687	.60808	7.57480	12.00060	.8963	7.50000	5.85700	-5.00190	00870	00090	00190
14.617	44.725	.59950	6.53810	12.02150	.0084	0 7.50009	5.84550	-4.99410	00580	00080	÷.00250
14.621	59.760	.60020	5.50180	12.03780	.8814	0 7.50000	5.03640	-4.93030	00380	00050	00260
	GRADIENT	00020	05844	.00486	.0003	.00000	08003	00311	.00084	00047	08017

DATE OI DEC 75

GRADIENT

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00000

TABULATED SOURCE DATA - CA20

747/1 01 51 ORBITER DATA (CONOB2) 1 20 JAN 75 1 CYSO PARAMETRIC DATA REFERENCE DATA ALPHAC . 8.000 BETAC = +5.000 SREF - 2690.0000 SQ.FT. XHRP 1109.0008 IN.XO ELV-18 -.000 ELV-08 \* 3.000 YMRP .0000 IN.YO LREF = 474.8100 IN. ELEVON = 5.000 HACH .600 ZMRP 375.0000 IN.ZO BREF = 936.6800 IN. BETAO = .000 PHI 7.500 SCALE -.0300 .008 10.000 ĎΧ DY 3.28 GRADIENT INTERVAL = +1.00/ 4.00 RUN NO. 798/ D RN/L -CSL. DY BETAO PHI ALPHAH BETA CY CLN **ALPHAO** DZ MACH DX -1.00870 11.14970 .35700 7.50000 9.65950 -4.98570 -.08540 -.09310 .00060 10.341 -.270 .60070 9.65970 -4.99610 -.00320 .37710 7.50000 -.08540 .00070 10.486 .652 .59920 -1.21140 11.14280 3.053 .59990 -1.45750 11.15870 .36160 7.50000 9.65670 -4.97910 -.00640 -.00310 -.00040 10.365 7.539 .59900 -2.06810 11.16310 .36060 7.50000 9.65760 -4.98830 -.00650 ~.00280 -.00128 10.389 -4.99010 -.00580 -.00180 -.00150 .35350 7.50000 9.65440 10.427 14.849 .60020 -3.06390 11.18630 30.104 .59970 -5.16390 11.23050 .34070 7,50000 9.64830 -4.98980 -.00310 -.03050 -.08210 10.498 .33340 -4.98770 -.00170 -.00020 ~.00230 -7.17850 11.25610 7.50000 9.64570 10.519 44.754 .60050 10.519 47,323 .60030 -7.52920 11.25990 .33110 7.50000 9.64270 -4.98730 -.00160 01000. -.00230 GRADIENT -.00013 -.12851 .00090 -.00019 -.00000 -.00092 .00217 -.00032 .00001 -.00033 RUN NO. 797/ 0 RN/L = 3.29 GRADIENT INTERVAL # -1.00/ 4.00 ALPHA0 DY BETAG PHI **ALPHAH** BETA CY CLN CSL DΖ HACH ĐΧ .59940 -2.24660 11.09770 .90490 7.50000 9.69240 -4.98790 -.01600 -.00220 -.00180 14.589 1.523 -.00186 -2.68170 .90410 7.50000 9.68750 -4.98930 -.01610 -.00200 4.729 .60080 11.10310 14.598 7.50000 9.68610 -4.97690 -.01750 -.00090 -.00070 14.608 8 739 .60880 -3.22950 11.10210 .90100 9.67900 -4.99560 -.01560 -.00040 .00000 16.314 .59980 -4.26990 11.12770 .09130 7.50000 14.637 ~.01150 -.00010 .00040 -6.28400 11.17200 .87570 7,50000 9.66570 -4.99090 14.668 31.043 .59930 -8.39199 7.50000 9.65840 -4.98970 -.00940 -.00020 .00000 14.697 46.253 .60030 11.20280 .06730 -4.98740 -.00490 -.00050 -.00120 .60050 -10.46728 11.22990 .85990 7.50089 9.64990 14.695 61.364

CA28 747/1 01 St

ORBITER DATA

(CCH083) ( 20 JAN 75 )

RENCE	

SREF	=	2590.0000	SQ.FT.	XMRP	•	1109.0000	IN.XD
LREF	•	474.8100	1N.	YMRP	•	.0000	IN.YO
BREF	•	936.6800	IN.	ZHRP	•	375.0000	1N.ZO
SCALE	-	.0300					

### PARAMETRIC DATA

ALPHAC	•	8.000	BETAC	•	-5.000
ELV-1B	•	.000	ELV-08	•	3.000
ELEVON	•	5.000	HACH	•	.600
BETAO	•	.000	PHI	*	7.500
DX	•	10.000	צם	=	10.000

RUN NO. 753/ 0 RN/L = 3.25 GRADIENT INTERV	VAL # -1.807 4	. 60
--------------------------------------------	----------------	------

ALPHAO 10.157 10.183 10.217 10.253 10.325 10.368 10.390	02 -4.055 -1.077 3.434 10.884 26.227 40.888 47.654	MACH .59320 .59910 .59910 .59950 .60000 .59980	DX 9.58440 9.17960 8.55730 7.53340 5.40650 3.35780 2.42180	DY 12.02470 12.01480 12.01330 12.03380 12.07790 12.10570 12.11280	BETAO .35460 .36780 .37270 .36920 .35530 .34880 .34450	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPKAN 9.72220 9.72250 9.72190 9.72090 9.71850 9.71230	6ETA -4.97930 -4.98720 -4.98040 -4.99020 -4.99130 -4.99700 -4.99700	00260 00540 00730 00720 00410 00250 00130	CLN 00210 00240 00280 00200 00200 .00000	.00130 .00130 .00030 00050 00160 00210
10.380	GRADIENT	00000.	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

### RUN NO. 754/ 0 RN/L \* 3.25 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
14.464	-1.CB3	.59930	B.03390	11.93300	.92370	7.50000	9.74720	-4.98020	01600	00250	08040
14.477	1.853	.59970	7.63200	11.94050	.92590	7.50000	9.74689	-4.99718	01680	00240	00080
14.493	6.139	.59980	7.04460	11.94340	.92410	7.50000	9.74430	-4.98480	01680	00210	00090
14.525	13.721	.60080	6.00510	11.96290	.91650	7.50000	9.73740	-4.98940	01600	00090	00140
14.575	28.934	.60020	3.90070	12.00290	.69970	7.50000	9.72870	-4.98460	01188	.00000	00090
14.596	44.022	.59940	1.80220	12.03188	.69130	7.50000	9.72270	-4.99150	00990	.00030	-60000
14.608	59.528	.60880	22260	12.06010	.69300	7.50000	9.71910	-4.99680	00548	.00010	00050
111,000	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE OI DEC 75

TABULATED SOURCE DATA - CA2D

(CGN084) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 01 SI PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 4.000 BETAC = SREF = 2690.0000 SQ.FT. XHRP = 1109.0000 IN.XO .000 ELV-08 -3.000 YHRP = .0000 IN.YO ELY-IB -474.8100 IN. ELEVON = 5.000 HACH = .600 375.0000 IN.ZO ZHRP = BREF = 936.6800 IN. 7.500 BETAO . .000 PHI .0300 SCALE = .000 DΧ .000 DY 3.19 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 705/ 0 RN/L = CY CLN CSL ALPHAH BETA ĐΧ DY **BETAO** PHI HACH **ALPHAO** DΖ -.00130 .00068 -.00378 .78150 .11400 .33540 7.50000 5.94610 -.00740 .59990 10.477 -.781 5.94350 -.00560 -.00400 -.00100 .03050 .33470 7.50000 .62900 .11610 1.431 .50020 10.470 5.93640 -.00330 -.00360 -.00090 .08030 .33340 7.50000 . 12250 10.466 6.105 .59930 .30370 -.60060 .00000 5.92780 -.08960 -.00330 -.21640 .13300 .33140 7.50000 .60000 13.569 10.472 -.00070 5.91860 -.00190 -.00220 -.00020 .32590 7.50000 -1.25130 .14890 .59960 10.485 28.308 -.00150 -.00180 -.00030 7.50000 5.90960 -.00070 .15620 .32600 43.532 .59950 -2.31820 10.489 -.00160 -.00180 -.00020 .15920 .32490 7.50000 5.90960 -.08060 -2.58010 10.490 47.201 .59940 -.08014 .00014 -.00000 .00000 -.00118 .00081 .00095 -.00032 GRADIENT .00014 -.06913 GRADIENT INTERVAL = -1.00/ 4.00 3.19 RUN NO. 704/ 6 RN/L = CSL CY CLN ALPHAH BETA HACH DΧ DY BETAO PHI DΖ **ALPHAO** -.00240 -.00086 5.86270 -.00920 -.00870 .97500 7.50000 -.69570 . 16150 6.448 .59970 15.435 -.00220 -.00050 5.85980 -.01440 -.00870 7.50000 .16320 .97380 15.428 9.304 .59980 -.89700 -.00870 -.00210 -.80070 5.85340 -.01150 -1.14210 .16420 .97360 7.5000D 12.875 .59960 15.423 -.00800 -.00100 7.50000 5.83730 -.00340 -.00180 .96990 -1.67000 .17050 .59920 15.412 20.640 -.00860 -.00160 -.00170 7,50000 5.81930 -.00920 .18780 .96590 36.109 .60000 -2.72220 15.415 -.00190 5.80820 -.00099 -.08610 -.60146 .19180 .96360 7.50080 .59970 -3.71920 15.414 50.653 5.91280 .00730 -.00450 -.00110 -.00210 7.50000 .20570 .64990 .60080 -4.54030 14.600 60.670 -.00230 -.00450 -.00090 -.00040 .95590 7.50000 5.60070 .59960 -4.73040 .20630 15.413 65.386 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT

CA20 747/1 01 SI

ORBITER DATA

(CCH095) ( 20 JAN 75 )

#### SEFERENCE DATA

### PARAMETRIC DATA

	referen	CE DATA						'		Date 1.00	
LREF =	690.0000 SQ 474.8109 IN 936.6900 IN .0300	. YMRP		0X.NI 0000 0Y.NI 0000 0X.NI 0000				ALPHAC = ELV-18 = ELEVON = BETAO = OX =	4.800 .000 5.000 .000	SETAC = ELV-08 = HACH = PHI = DY =	.000 3.000 .600 7.500
		RUN NO.	688/ 0	RN/L =	3.25 GF	RADIENT INTER	0.1 LAVS	00.4 \0			
ALPHAO	DZ	HACH	ВX	DY	BETAO	PHI	ALPHAN	BETA	CY	CLN	CSL
10.398	-1.550	.59990	10.83680	.08910	.32620	7.50000	5.86969	.00820	09300	00100	.00130
10.393	1.373	.59990	10.63990	.69070	.32610	7.50000	5.85880	.00850	00380	00080	.00150
10.383	5.899	.59950	10.33220	.09770	.32520	7.50800	5.86370	.01116	~.00320	00070	.00080
10.389	13.274	.59930	9.82720	.10370	.32480	7.50000	5.85710	.01310	00330	00050	.00840
10.385	28.273	.59950	8.79640	. 11890	.31960	7,50000	5.84670	.02070	00200	08010	0004 <b>0</b>
10.420	43.578	.60800	7.73890	.13010	.31990	7.50000	5.83970	.61420	00190	00020	00130
10.422	48.459	.59940	7.40080	. 13490	.31810	7.50000	5.03900	.01410	00590	08020	00170
	GRADIENT	.00800	.00000	.00000	.00000	.00000	.00000	.00000	.80200	.00000	.00000
		RUN NO.	. 685/ 0	RN/L =	3.26 O	RADIENT INTER	RVAL = -1.0	0/ 4.00			
ALPHAO	OZ	HACH	DX	DY	BETAO	PH!	ALPHAH	BETA	CY	CLN	CSL
14,697	1.100	.59940	9.54250	.13260	.07920	7.50000	5.89750	00300	00810	00220	00020
14.684	4.360	.68080	9.32210	.13590	.87260	7.50000	5.89530	60170	00840	00190	00020
14.678	9.649	.60060	9.02890	.13720	.87880	7.50000	5.88960	.01030	~.00800	00210	00050
14.673	16, 181	.59930	8.51060	, 15310	.87710	7,50000	5.87810	. 40470	00590	08240	00230
14.675	31.096	.60050	7,48510	. 17240	.07330	7.50800	5.86330	.08578	00340	00260	00370
14.684	46.169	.60080	6.44000	. 16710	.87350	7.50000	5.85290	.01390	08470	00210	00310
14.685	61.197	.59990	5.39690	.18170	.65570	7.50000	5.84650	.01430	09290	00150	08350
14.600	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

			CV50	747/1	01 St	c	RBITER DATA		(CGN08)	M 120 JA	N 75 J
	REFERENCE	DATA							PARAMETRIC	CATA	
SREF = 2	690.0000 <b>5</b> 0.F1	r. XHRP	· 1109.00	00 IN.XO				ALPHAC =	a.000	BETAC .	.000
	474.8100 IN.	YHRP	.00	OB IN.YO				ELV-IB =	.000	ELV-08 =	3.000
	936.6800 IN.	ZHRP	= 375.00	00 IN.ZO				ELEVON *	5.000	HACH =	.600
SCALE =	,0300							BETAO =	.000	PHI *	7.500
SUALE -	.0350							DX •	.000	ר אם	.000
		RUN NO.	. 702/ 0	RN/L =	3.21 (	GRADIENT INTER	RVAL = -1.0	0/ 4.GD			
	0.7	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
ALPHAO	DZ	.59930	-,84120	.06700	.33000		9.69480	00030	00380	00050	.00386
10.331	-1.338	.60000	-1.25560	.07150	.33130		9.69390	00040	00440	00840	.00340
10.340	1.740	.60070	-1.87580	.08170	.3328		9.58910	00010	00410	00050	.09280
10.363	6.289		-2.90490	.09830	.3323		9.68730	.08010	00410	00040	.00190
10.396	13.806	.60030	-4.95180	.12610	.3295		9.68090	.00860	00240	00020	.00030
10,462	28.633	.60060	-7.00390	.14140	.33000		9.67620	.00150	00200	00030	00070
10.485	43.466	,69040		, 14340	.3281		9.67300	.00920	00170	00010	00100
10.489	47.096	.59950	-7.50170	.00000	.00001	•	.00000	.00000	.00000	.00800	.00000
	GRADIENT	.00000	.00000	.00000	.0000	.00000	100000	.0000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		RUN NO	. 703/ 0	RN/L =	3.20	GRADIENT INTE	RVAL = -1.0	10/ 4.00			
	DZ	насн	ρx	DY	BETAO	PHI	ALPHAR	BETA	CY	CLN	CSF
ALPHAO	1.005	.69800	-2.17580	.11060	.8669		9.72400	+.01250	01130	00130	.00290
14.513		.59980	-2.50520	.11270	.8673	=	9.71980	00330	01140	00110	.00260
14.522	4.003	.55560	-3.18350	.12190	.8656		9.71600	00140	011iG	00090	.00220
14.535	8.390		-4.20120	.13390	.8625		9.70760	08040	01120	00040	.00230
14.550	15.842	.59970		. 15790	.9643		9,69510	.00020	00960	00060	.00200
15.384	35.410	.59990	-6.23850	. 17100	.9642	=	9.68670	.00140	00840	00100	.00080
15.397	50.740	.60030	-9.05970	.19330	.9563	=	9.68350	.60140	08570	00070	00060
15.398	65.244		-11.07430 .00000	.00000	.0000	=	.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00000	. 600000		,000	00000	.50000				

ORBITER DATA

(CON087) ( 29 JAN 75 )

	NCE	

### PARAPETRIC DATA

	REFER	ENCE DATA							PARTEIRIG	DVIV	
SREF = : LREF = GREF = SCALE =	2890.0000 474.8100 936.6880 .0380	IN. YHRP	0	0000 IN.XO 0000 IN.YO 0000 IN.ZO				ALPHAC = ELV-1B = ELEVON = EETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-08 = MACH = PHI = DY =	.000 3.000 .500 7.500
		RUN NO.	683/ 0	RN/L =	3.27 GR	ADIENT INTER	RVAL = -1.0	D/ 4.80			
ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	<b>BETA</b>	CY	CLN	CSL
10.202	-2.846	.60970	9.42630	.05380	.30970	7.50000	9.72550	.00720	00240	.00060	.00430
10.212	.552	.60020	0.96280	.05120	.31,500	7.50000	9.72650	.01490	00370	.00030	.00400
16.232	4.877	.60020	8.36890	.05670	.31740	7.50000	9.72560	.01510	00400	.00020	.00350
10.267	12.472	.59990	7.32440	.07370	.31830	7.50000	9.72090	.00760	00360	.00000	.00260
10.343	27.592	.59930	5.22440	.09540	.31840	7.50000	9.71640	.02330	00230	.00010	.09110
10.377	42.540	.60030	3.14850	.11600	.31820	7.50000	9.71420	.01650	00120	00930	00040
10.387	48.934	.60050	2.25810	. 12250	.31670	7.50000	9.71250	.01650	00099	00010	00090
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00800	_00800	.00000
		RUN NO.	684/ 0	RN/L =	3.26 GR.	ADIENT INTER	RVAL = -1.0	10/ 4.08			
ALPHA0	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.557	-1.221	.59970	8.03810	.07550	.87510	7.50000	9.75080	.00290	01070	00120	.00440
14.553	1.801	.59960	7.63010	.08390	.97580	7,50000	9.75280	.00360	01070	00100	.00360
14.564	6.393	.59920	7.00370	.08780	.87610	7,50000	9.74630	.01280	01080	00090	.00280
14.590	13.985	.59980	5.96410	. 10350	.97490	7.50000	9.74190	.01410	01020	00070	.00180
14.632	28.717	.60040	3.93720	.13370	.87070	7.50000	9.73190	.01500	00780	00080	.00050
14.655	43.772	.59920	1.64850	.14770	.87100	7.50000	9.72470	.01620	00670	00130	00050
14.654	48.457	.59900	1.19960	. 14870	.86940	7.50000	9,72120	.02410	00620	00130	00070
14.655	53.011	.59990	.56350	.15680	.86980	7.50000	9.72150	.01640	00590	00130	00070
	GRADIENT	,00000	.00000	.00000	.00000	.08000	.08000	.00000	.00000	.00000	.00000

DATE OF DEC 75

61.277

GRADIENT

14.696

.59940

.00000

-4.42800

.00080

TABULATED SOURCE DATA - CA28

1 20 JAN 75 1 1CGN0881 CA20 747/1 OLSI ORBITER DATA PARAMETRIC DATA REFERENCE DATA .006 4.000 BETAC = ALPHAC -XHRP = 1109,0000 IN.XO SREF = 2690.0000 SQ.FT. 3.000 .000 EL.V-08 = ELY-18 = 474.8100 IN. YHRP .0000 IN.YO 5.000 HACH .600 ELEVON = ZHRP \* 375.0000 IN.ZO BREF \* 936.6800 IN. 7.500 BETAO = .000 PHI .0300 SCALE = t0.000 .000 DY GRADIENT INTERVAL = -1.60/ 4.00 RN/L = 3.35 RUN NO. 790/ 0 CY CLH CSL BETA DETAO PHI ALPHAN DY ALPHAD DZ HACH ĐΧ .00050 -.00120 -.00278 -.00578 .35260 7.50000 5.84990 .71130 10.12070 .60090 10.555 . 254 -.00490 -.00230 -.00250 -.00680 .35390 7.50000 5.84950 .49520 10.11910 .59950 3.398 10.549 -.00230 -.00430 5.84070 .00080 -.00260 7.50000 .35340 .20180 10.11940 7.733 .60010 10.551 -.00340 -.00160 5.83350 -.00960 -.09320 7.50000 -.31960 10.12750 .35020 .60060 10.556 15.401 -.00200 -.00040 -.00280 .33860 7.50000 5.82300 .00410 -1.32890 10.14530 .60090 30.165 10.567 -.00130 -.00010 -.00250 7.50000 5.81600 .00450 .33400 10.15660 .59920 -2.38060 10.572 45.458 -.00250 .00010 7,50000 5.81730 -.00320 -.00120 -2.54189 10.16140 .33220 47.767 .59990 10.573 .00025 -.00013 -.00232 -.00035 .00006 .00041 .08000 -.05873 -.00051 -.00041 GRADIENT GRADIENT INTERVAL # -1.00/ 4.00 793/ 0 RN/L = 3.32 RUN NO. BETA CY CLN CSL **ALPHAH** DY BETAO PHI DX **ALPHAO** DΖ HACH -.80180 -.00070 -.00700 -.01410 .89850 7.50000 5.86510 10.14030 .60000 -.34990 1.965 14.705 -.01320 -.00130 -.00128 .88850 7.50000 5.86030 -.00760 -.54980 10.14100 4.790 .59970 14.785 -.00950 -.01310 -.00140 -.00050 5.85570 -.83550 10.14240 .08720 7.50000 8.916 .59960 14.694 -.00150 -.00110 -.00660 -.01090 .89140 7.50000 5.84520 10.15569 .59920 -1.34730 14.697 16.371 -.00230 -.00140 5.62820 -.01420 -.00720 7.50000 .69010 -2.36750 10.18500 .87110 31.267 14.692 -.01260 -.00590 -.00120 -.00230 .86680 7.50000 5.81760 -3.41780 10.19600 46.547 .59960 14.697 -.00110 -.00270

.85990

.00000

10.21030

.00'00

7.50000

.00000

PAGE 357

-.00380

.00000

.08080

.00000

-.00330

.00000

5.80770

-.06948

.00003

.00090

ORBITER DATA

(CGN089) ( 20 JAN 75 )

PARAMETRIC DATA

REFERENCE	DATA
-----------	------

GRADIENT

LREF =	2690.0000 SO.FT. 474.8100 IN. 936.6880 IN. ,0300	XMRP THRP	.0000	IN.YO	ALPHAC • ELV-18 • ELEVON • BETAO • Ox	.000 5.000 .000	BETAC ELV-OB HACH PHI DY		.000 3.000 .600 7.500 10.000
--------	-----------------------------------------------------------	-----------	-------	-------	---------------------------------------	-----------------------	--------------------------------------	--	------------------------------------------

JUNEE -	,1000							DX •	10.000	DY =	10.000
		RUN NO	. 748/ 0	RN/L -	3.31 GRA	DIENT INTER	VAL = -1.0	g/ <b>4.88</b>	-		
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLH	CSL
10.378	-1.632	.60020	10.85360	10.09140	.36670	7.50000	5.85880	.00020	09310	00220	00490
10.387	1.664	.60010	10.62560	16.68940	.36940	7.50000	5.85350	.00820	09340	60240	00420
10.394	6.284	.60010	10.30650	10.89400	.37000	7.50000	5.85260	.00070	00390	00230	00380
10.402	13.375	.60060	9.62330	10.10030	.36840	7.5000B	5.64730	00140	00430	00160	00328
10.423	28.632	.60090	8,77719	10.11670	.35660	7.50000	5.83630	.00290	00320	00850	00270
10.434	93.683	.60070	7,73850	10.12950	.34900	7.58000	5.82970	.01160	00170	.00010	07260
10.431	47.364	.60030	7.48270	10.13340	.34760	7.58000	5.83090	.01190	80120	.00010	80260
10.431	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO	. 751/ G	RN/L =	3.25 GRA	DIENT INTER	NAL = -1.0	9.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.603	240	,59960	9.65580	10.10520	.91100	7.50000	5.68620	.60130	01510	00020	00340
=	2.648	.59970	9.45510	10.10780	.91230	7.58080	5.88670	.60110	01440	00110	00218
14.595	7,191	.59940	9.14070	10.11650	.91150	7.50000	5.88310	00120	01410	00120	60150
14.596	14.612	.59978	8.63500	10.12720	.90760	7.50000	5.87400	01480	01278	00140	00110
14.595	29.756	.59940	7.58700	10.15800	.89650	7.50000	5.85730	.00120	03780	00150	00300
14.603	44.626	.59900	6.55800	10.17050	.69130	7.50000	5.84810	00560	08510	00160	00370
14.611	59.694	.59980	5.51570	10.18640	.68330	7.50000	5.83880	00370	00290	00130	00360
14.611	COACIENT	00003	06948	.02020	.00045	00000	.00017	00807	.00024	00931	.00045

DATE BI DEC 75

TABULATED SOURCE DATA - CA20

( 20 JAN 75 ) (CGN090) ORBITER DATA 747/1 OL SI CA20 PARAMETRIC DATA REFERENCE DATA .000 BETAC = ALPHAC = 8.000 XMRP 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. 3.000 ELV-IB = .000 ELV-08 = YMRP \* .0000 IN.YO 474.8100 IN. LREF = HACH = .600 ELEVON = 5.000 375.0000 IN.ZO ZMRP = 935.6808 IN. BREF = 7.500 PHI .000 BETAC = SCALE -.0300 10.000 .000 DY ĐΧ GRADIENT INTERVAL = -1.00/ 4.00 3.28 RUN NO. 799/ 0 RN/L = CSL ÇΥ CLN PHI ALPHAH BETA DETAO DY OX ALPHAO ΟŻ HACH -.00330 -.00600 9.66040 .01350 .00650 7.50000 ,32780 10.11350 .60030 -1.02460 10.357 -.035 .00300 -.00340 -.00510 .80489 9.65910 7.50000 -1.45630 10.10050 .33960 .59960 3.161 10.375 -.08440 -.00300 .00230 .00840 10.09530 .34380 7.50000 9.65930 -2.04560 7.497 .60020 10.396 -.00360 -.00170 -.00240 9.65560 .00100 7,50000 .34630 10.89790 .60070 -3.04220 10.435 14.798 -.08240 -.00090 -.00280 .01370 9.64940 7.50000 10.11650 .34030 -5.10530 .59910 29.012 10.494 -.00270 -.00030 .00730 -.00170 7.50000 9.64690 .33420 10.13900 -7.24650 45,359 .59950 10.518 -.00260 .00760 -.00130 -.08020 9.64400 7.50000 .33230 .60020 -7.51750 10.14290 47.339 10.522 -.08003 .00028 -.00110 -.00272.00000 -.00841 .0033B -.00022 -.13509 -.00404 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 3.29 RUN NO. 796/ 0 RN/L = CSL CLH CY ALPHAH BETA BETAD PHI DX DY DZ MACH ALPHA0 -.00610 -.00300 -.80530 -.00176 7.50000 9,69560 .87480 -2.22770 10.14370 .59950 1.481 14.594 -.00430 -.00850 -.00150 -.00590 9.69070 10.13000 .88110 7.50000 .59900 -2.64420 4.549 14.602 -.01110 -.00110 -.00290 9.69790 -.00250 .88520 7.50000 -3.20750 10.11860 .59930 8.657 14.617 -.01210 -.08060 -.00168 .00160 7.50000 9.67930 -4.27940 10.12340 .89400 16.518 .59980 14.642 .00000 -.00030 -.01070 9.66690 **~.00270** 7.50000 10.14970 .87470 -6.30190 .59980 14.671 31.266 .00000 -.08020 -.00210 -.00880 9.65650 .86860 7.50000 .60010 -8.35180 10.17100 46.167 14.697 -.08560 -.80850 -.00110 .00750 7.50000 9.65050 10.19289 .86220 -10.40659 .60020 61.030 14.696 .80000 .00000 .00000 .00000 .08080

.00000

.00000

.00000

.00000

GRADIENT

.00000

.000

CA20 747/1 01 51

ORBITER DATA

(CGN091) [ 20 JAN 75 )

PARAMETRIC DATA

RENCE	

the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

BETAC -8.000 ALPHAC = SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO 3.000 .000 ELY-09 -ELV-18 = .0800 IN.YO LREF = 474.8100 IN. YHRP = BRI SC/

REF =	936.6800 IN. 936.6800 IN. .0300	YHRP ZHRP	* 375.0	800 IN.YO 600 IN.ZO	3,28 GRA	DIENT INTER	<b>!</b>	ELV-18 = ELEVON = BETAO = OX =	5.000 5.000 .000 10.000	DA = HYCH = FFA-CB =	.600 7.500 10.000
ALPHAO 10.211 10.231 10.254 10.264 10.350 10.390 10.396	DZ -2.473 .684 5.170 12.734 27.679 42.827 47.827 GRADIENT	RUN NO.  MACH .60010 .59940 .59950 .59930 .59950 .59950 .59950 .60050	0X 9.37070 8.93780 8.32140 7.28040 5.20360 3.09470 £.39640	DY 10.09490 10.08320 10.07530 10.07600 10.11470 10.12240 .00800	86TAO .34320 .35240 .36020 .36200 .35550 .35150 .34930	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 0.00000	ALPHAH 9.73370 9.73220 9.73220 9.73290 9.72830 9.72610 9.72100 ,00000	BETA .00410 .00470 .00260 .00110 .00560 .00660 .00690	CY .00580 .00280 00220 00260 00240 00190 00120	CLN 00240 00270 00280 00210 00080 00020 .00000	CSL 00568 00460 00380 00320 00260 00260 00260
	Olivo Lati	RUN NO.	750/ 0	RN/L =	3.26 GRA	DIENT INTER	IVAL = -1.00	y 4.60			
ALPHAO 14.458 14.469 14.487 14.517 14.559 14.596	07 -1.845 1.617 5.361 13.973 28.740 41.006 42.477 58.866 GRADIENT	MACH .59970 .59960 .60050 .60060 .60010 .59970 .60050 .59920	DX 8.15120 7.67690 7.02750 5.97980 3.93560 2.22730 2.02840 26060 .00000	DY 10.11780 10.10740 10.09550 10.09910 10.12300 10.13620 10.13900 10.16340 .00000	9ETAO .89550 .90290 .90700 .90650 .89680 .69270 .89110 .88240	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAM 9.75910 9.75970 9.75520 9.74700 9.73940 9.73390 9.72820 9.72820 0.0000	8ETA .002±0 .00250 .01360 .00160 .00370 00330 00310 00120	CY0037000650009300115001060010800108001080	01500 01100 05000 05000. 05000.	CSL 00740 00590 00440 00350 00150 00050 00020 00020

.=

GRADIENT

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00800

.00000

.00000

PAGE 351

			CAZO	747/1	01 51	(	X81TER DATA	i	(CGH05	S) (50 7	W 75 I
	REFERENC	E DATA							PARAHETRIC	DATA	
SREF = i	2690.0000 SQ.	FT. XHRP	- 1109.0	080 IN.XO				ALPHAC -	4.000	BETAC =	5.000
LREF =	474.8100 IN.	YHRP	= .0	000 IN.YO				EFA-18 =	.080	ELY-08 #	3.000
BREF =	936.6800 IN.	ZMRP	= 375.0	000 IN. <b>ZO</b>				ELEVON .	5.000	HACH =	.800
SCALE =	.0300							BETAO =	.000	PH1 =	7.500
								DX =	.000	DY =	10.000
		RUN NO	. 789/ 0	RN/L =	3.37 GR	WIENT INTER	RVAL = -1.0	0/ 4.00			
ALPHAO	DZ	MACH	ĐΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
10.577	150	.59980	.72100	8.96510	.36690	7.50000	5.84990	98850	.00050	09470	01290
10.565	3.389	.60030	.48160	0.96960	.36070	7.50000	5.84670	. 93640	00040	00380	00950
10.564	7.766	.60060	.18390	8.97340	.35770	7.50000	5.83930	4.98560	~.00080	+.00330	00760
10.561	15.573	.59950	34810	0.97980	.35300	7.50000	5.83440	4.96720	00220	00230	80558
10.569	30.037	.59900	-1.33700	0.99030	.34320	7.50000	5.82300	4.97980	00210	00090	00380
10.574	45.241	.60010	-2.37860	9.00170	.33720	7,58000	5.81630	4.99170	00100	00030	00300
10.574	47.768	.59970	-2.55580	9.00290	.33650	7.50000	5,81790	4.99180	00170	00020	00300
	GRADIENT	.08014	~.06764	.00127	00172	00000	00090	00059	~.00025	.00025	.00093
		RUN NO	. 794/ 0	RN/L =	3.31 GR	ADIENT INTER	RVAL = -1.0	0/ 4.00			
ALPHA0	DZ	MACH	ĐΧ	ÐY	BETAO	PH1	ALPHAH	BETA	CY	CLN	CST.
14.741	1.968	.59930	37430	9.07530	.89280	7.50000	5.86070	5.00420	01040	00150	00910
14.723	4.532	.59980	55020	9.07210	.89060	7.58008	5.85950	5.00880	01130	00150	00600
14.712	8.966	.60060	05330	9.07150	.68950	7.50000	5.85570	5.01510	+.01180	00170	00340
14.701	16.604	.59970	-1.37350	9.08220	.88480	7.50000	5.84130	5.00370	01110	00170	00180
14.695	31.346	.60060	-2.38170	9.10610	.67490	7.50000	5.82510	5.00290	00790	00160	00270
14.699	46.685	.59976	-3.43760	9.11960	.86940	7.50000	5.81480	4.99540	00650	00130	00260
14.69B	61.405	.60010	-4.45100	9.13090	.86330	7.50000	5.80750	5.00490	00488	00110	00250

Original: Page is of Poor Quality

GRADIENT

.00013

-.06677

CA20 747/1 01 51

.00129

-.00061

ORBITER DATA

-.60190

.00000

(CON093) ( 20 JAK 75 )

-.00003

-.00132

-.00019

DCE	 	^-	n	

	REFERENCE	DATA							PARAHETRIC	DATA	
SREF = 1 LREF = BREF = SCALE =	2690.0000 SQ.F 474.9100 IN. 936.6800 IN. .0300	T. XHRP YHRP ZHRP	<b>-</b> .0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-IB = ELEVON = ECTAO = DX =	4.000 .000 5.000 .000	BETAC = ELV-08 = HACH = PHI = DY =	5.000 3.000 .600 7.500 10.000
		RUN NO	. 756/ 0	RN/L =	3.27 GR	ADIENT INTER	WAL1.0	0/ 4.00			
ALPHAD	DZ	HACH	DX	ĐΥ	BETAO	PHI	ALPHÁH	BETA	CY	CLN	CSL
10.487	-1.572	.60030	10.83100	B.07640	.37780	7.50000	5.85840	4.98230	.00010	00430	01278
10.397	1.296	.60000	10.63680	8.07760	.37490	7.50000	5.85760	4.98060	00090	00370	~.01029
10.397	5.872	.60080	10.32570	8.08270	.37180	7,50000	5.85460	4.97180	00218	80399	00790
10.403	13.650	.60030	9.79170	8.08480	.36790	7.50000	5.85130	4.96920	00350	00200	00560
10.415	29.531	.59970	6.76850	8.09390	.35840	7.50000	5.84310	4.97316	00360	00060	00378
10.423	43.642	.60020	7.72630	8.10690	.35200	7.50000	5.83750	4.97480	00260	00010	03329
10.428	47.246	.60080	7.47400	8.11120	.34990	7.50000	5.83890	4.97490	00210	.08080	00310
10.460	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO	. 759/ 0	RN/L =	3.24 GR	ADIENT INTER	WAL = -1.0	10/ 4.00			
ALPHAO	DZ	HACH	ĐΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
14.648	347	.60040	9.63370	8.18350	.91470	7.50000	5.88520	4.98300	01230	00010	01100
14.628	2.762	.60080	9.42610	8.18750	.91280	7.50000	5.87930	4.97890	01240	00070	00729
14.615	7.144	.59940	9.12810	8.18710	.91230	7.50000	5.97670	4.97800	~.01350	00080	00430
14.608	14.929	.59920	8.60060	8.19200	.90870	7.50000	5.86460	4.97460	01410	00060	00150
14.610	29.445	.59910	7.60316	6.22120	.98000	7.50000	5.85130	4.96530	01010	00100	00180
14.615	44.674	.59940	6.55210	8.23570	.69450	7.50000	5.83930	4.96520	00790	00090	00260
14,618	59,607	.5920	5.51(30	8.25220	.88490	7.50000	5.B3790	4.97470	00490	00060	00290

TABULATED SOURCE DATA - CA20

9.08130

.00000

-10,43360

.00000

.60050

.00800

61.101

**GRADIENT** 

14.599

PAGE 363 DATE OI DEC 75 (CGN094) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 5.000 ALPHAC . 8.000 BETAC = - 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. XHRP 3.000 ELV-IB -.000 ELV-08 = .0000 IN.YO 474.8100 IN. YHRP LREF .600 HACH ELEVON = 5.080 375.0000 IN.20 ZHRP 936.6800 IN. BREF = 7,500 .080 PHI BETAO = SCALE = .0300 .000 DY 10.000 ĐΧ GRADIENT INTERVAL # -1.00/ 4.00 3.20 RN/L = RUN NO. 8007 0 CY CLN C\$L PHI ALPHAH BETA DY BETAO HACH DX ALPHAO ĐΖ .00690 -.00550 -.01330 4.99450 .34720 7.50000 9.65660 8.91870 -1.02330 .59930 10.393 -. 121 -.00490 -.01020 9.65730 4.99140 .00510 7.50000 -1.48700 .34590 8.91930 3.200 .59930 10.394 -.00800 -.00410 9.65340 5.08470 .00330 -2.03700 9.91600 .34470 7.50000 7.350 .60060 10.408 -.00550 4.99410 -.08030 -.00280 7.50000 9.65240 .34670 8.91490 -3.14280 15.415 ,59950 10.448 -.00170 -.00120 ~.00370 5.00160 7.50000 9.64660 .34150 -5.16010 8.92890 .60080 10.585 30.092 -.00310 -.00170 -.00060 4.98740 8.94650 .33540 7.50000 9.64150 +7.25270 .59990 10.523 45.305 -.00840 +.00290 4.99510 -.00150 7.50000 9.63840 .33480 -7.53260 8.94780 47.357 .60070 10.526 .00018 12000. -.00053 .00000 .00021 -.00091 -.13632 .00018 -.00039 GRADIENT .00000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 795/ 0 RN/L = 3.30 CSL CLH BETA CY PHI ALPHAH ĐΥ BETAD DX MACH **ALPHAO** ΒZ -.01250 4.97390 -.00090 -.00290 9.69330 .87620 7.58000 9.06050 .59980 -2.21010 14.669 1.223 **→.00490** -.00210 -.00840 4.98640 9.69930 -2.62530 9.04320 .87780 7.58000 4.295 .60010 14.504 -.00500 -.00880 -.00140 9.68390 4.99180 .88110 7.50000 9.02010 .60939 -3.27870 9.099 14.610 -.00100 -.00370 4.99360 -.00990 9.67580 7.50000 -4.27940 9.03250 .88890 .59900 14.633 16.424 -.00040 -.00040 4.99120 -.01070 7.50000 9.66440 9.04260 .87580 -6.30030 31.163 .60010 14.673 -.00940 +.00030 -.00010 4.97790 7.50000 9.65340 .87040 .59990 -8.40360 9.08230 14.686 46.448

.06590

.00000

7.50000

.00000

-.00140

.00000

-.00530

.00000

9.64950

.00000

4.98690

.00000

-.00070

CAZO	747/1	01 S1
------	-------	-------

ORBITER DATA

(CGN095) ( 20 JAN 75 )

	DATA

GRADIENT

### PARAMETRIC DATA

	REFERENCE	E DATA							PARAMETATE	DATA	
LREE - "	690.0800 5Q.I 174.8100 IN. 936.6800 IN. .0300	FT. XHRP YMRP ZMRP	0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	8.080 .080 5.080 .080	SETAC = ELV-OS = HACH = PHI = DY	5.000 3.000 .600 7.500 10.000
		RUN NO.	757/ 0	RN/L =	3.26 G	RADIENT INTER	VAL = -1.0	0/ 4.00			
ALPHAO 10.229 10.238 10.254 10.286 10.352 10.383 10.385	DZ -2.945 .916 5.217 12.241 27.562 42.621 47.697 GRADIENT	MACH .60060 .59990 .59920 .60010 .60020 .59970 .59990	0X 9.43320 8.90030 8.36880 7.33910 5.20990 3.12000 2.41280	DY 8.02160 8.02590 8.02100 8.02610 8.03700 8.05510 9.05700	8ETAO .36630 .36290 .36370 .36490 .35360 .35360 .00000	7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAH 9.72940 9.72990 9.72940 9.72730 9.72460 9.71610 9.71670	BETA 4.98930 4.97780 4.98330 4.96470 4.97830 4.97170 4.97960 .00000	CY .00510 .00320 .00120 00160 00270 00250 00220	CLN 00510 00410 00370 00280 +.00120 00050 00030	CSL 01390 01000 00750 00550 00370 00310 00300
		RUN NO.	758/ 0	RN/L #	3.26 (	RADIENT INTER	IVAL = -1.0	30/ 4.60			
ALPHAO 14.510 14.504 14.507 14.530 14.567 14.594 14.605	DZ -1.170 1.917 6.286 13.848 29.243 43.847 58.686 GRADIENT	HACH .69020 .60050 .59960 .60020 .60030 .60080	0X 9.03630 7.62130 7.02320 5.98650 3.86020 1.82560 24170 .06000	DY 8.17130 8.16420 8.15640 8.14470 8.15720 8.17060 8.19240	8ETAO . 90250 . 90580 . 90741 . 90720 . 9015 . 89541 . 6878	7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAH 9.75370 9.75550 9.75180 9.74450 9.73420 9.73000 9.72470	8ETA 4.98380 4.97220 4.96980 4.97640 4.97790 4.97750 .00000	CY .03070 00340 00550 01020 01170 01100 00820	CLN 00330 00290 00240 00110 00030 .00010 .00000	CSL 01550 01130 00820 00590 00180 00030 00030

DATE OF DEC 75

GRADIENT

.00000

.00000

.00000

TABULATED SOURCE DATA - CA20

PAGE 365 CA20 747/1 01 51 ORBITER DATA (CGN09B) 1 20 JAN 75 1 PARAHETRIC DATA REFERENCE DATA 2690,0000 SQ.FT. XMP . 1109.0000 IN.XO ALPHAC = 4.000 BETAC = -5.000 .0000 IN.YO ELV-18 = .000 ELY-08 = 3.000 YMRP 474.8100 IN. ELEYON = HYCH .600 ZMRP . 375.0080 IN.ZO 5.000 BREF = 936.6800 IN. BETAO = -5.000 PHI 7.500 SCALE = .0300 .000 D¥ DX 10.000 ORADIENT INTERVAL - -1.00/ 4.00 RN/L = 3.28 RUN NO. 804/ 0 CSL ALPHAO HACH DX DY BETAO PHI **ALPHAH** BETA CY CLN 11.60330 -4.90570 7.50000 5.85380 -4.99080 .04400 .01540 .00430 .639 .59990 .65310 10.501 .45410 11.60440 -4.90260 7.50000 5.84728 -4.98290 .04440 .01480 .00340 3.578 .59970 10.577 -4.97530 -4.90650 .01470 .00290 10.576 7.854 .60050 .16150 11.61590 7.50000 5.84590 .04590 -4.98310 .00250 .60030 -.34730 11.63520 -4.91210 7.50000 5.83640 .04780 .01470 10.583 15.309 -4.92520 5.82710 -4.97290 .05130 .01510 .00210 30.620 .60070 -1.40130 11.66810 7.50000 10.681 .60010 -2.42020 11.69410 -4.92830 7,50000 5.01980 -4.57980 .05260 .01540 .00170 10.517 45.347 -4.97190 .00160 .59960 -2.59130 11.69650 -4.93050 7.50000 5.81890 .05330 .01530 10.614 47.836 .00269 -.00031 GRADIENT -.00007 -.06770 .00037 .00:05 .00000 -.00225 .00014 -.00020 805/ 0 RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. CSL MACH ĐΧ DY BETAO PHI ALPHAH BETA CY CLN ALPHAO DZ -4.33990 7.50000 5.87880 -4.99520 .01350 .00260 14.802 1.971 .60070 -.39910 11.58740 .04180 4.974 .60090 -.60690 11.58550 -4.33680 7.50000 5.87760 -4.98020 .04270 .01270 .00128 14,766 -4.33828 -4.97870 .04400 .01270 -000000 -.91750 11.59210 7.50000 5.87070 14.775 9.438 .59980 -4.98720 -.00120 14.774 16.557 .60050 -1.40750 11.61020 -4.34400 7.50000 5.86150 .04620 .01270 .60030 -2.45270 11.64460 -4.35890 7.50000 5.84370 -4.98040 .05080 .01320 -.00210 14.779 31.753 5.82950 .05200 -.00270 -4.36560 7.50000 -4.98910 .01370 14.774 47.052 .60020 -3.50320 11.66200 14.772 61.438 .59970 -4.49830 11.67880 -4.37510 7.50000 5.82190 -4.97970 .05430 .01420 -.00250

.00000

.00000

.00000

.00000

.00000

.00000

GRADIENT

-.00026 -.13531

.00136

.00187

-.00000

-.00262

-.00249

.00016

-.00036

-.00026

			CYSI	747/1	01 \$1		ORBITER DAT	A	(CGHOS	771 (20 J	AN 75 3
	REFERE	NCE DATA							PARAMETRIC	DATA	
SREF = LREF = BREF = SCALE =	2690.0000 S 474.8160 [ 936.6800 ] .0300	N. YHR	). = °	1000 1N.XO 1000 1N.YO 1000 1N.ZO				ALPHAC = ELV-IB = ELEVON = EETAO = OX =	8.000 .000 5.000 -5.000	BETAC = ELV-0B = HACH = PH1 = OY =	-5.009 3.000 .500 7.500 10.000
		RUN NO	). BII/ 0	RN/L =	3.26 GR	ADIENT INTER	1.1- = JAVF	00.4.00			
ALPHA0 10.393 10.413 10.438 10.483 10.527 10.564 10.566	DZ 693 2.882 7.530 15.189 29.943 45.352 47.556 GRADIENT	MACH .59910 .60020 .59990 .60080 .59980 .60010 .59980 .00037	0X -1.05190 -1.45190 -2.08240 -3.13490 -5.16010 -7.29310 -7.60089 13446	DY 11.61180 11.60080 11.60720 11.63100 11.67380 11.70260 11.7058000370	9ETA0 -4.92370 -4.91330 -4.91870 -4.91100 -4.92360 -4.92950 -4.93000 .00350	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000 .00000	ALPHAH 9.67230 9.67070 9.65620 9.65350 9.65390 9.65000 9.65160 00054	6ETA -4.98240 -4.97430 -4.97440 -4.97360 -4.9720 -4.97110 -4.99630 .00272	CY .04800 .04520 .04520 .04520 .05180 .05140 ~.00094	CLN .01640 .01620 .01570 .01550 .01590 .01580 .01610	CSL .00078 .00018 00040 00020 .00030 .00060 00020
ALPHAO 14.680 14.684 14.700 14.711 14.732 14.745 14.748	DZ .829 3.926 7.951 15.864 30.777 45.232 60.426	HACH .60040 .59960 .60050 .59950 .59960 .60020	0x -2.17220 -2.59130 -3.13640 -4.22030 -6.27550 -8.28290 -10.28860	DY 11.58110 11.58530 11.56450 11.60190 11.65440 11.67750 11.69300	BETAO -4.34470 -4.33890 -4.33550 -4.35920 -4.35920 -4.35920	PHI 7.50000 7.50000 7.50000 7.50000 7.50000 7.50000	ALPHAH 9.70740 9.69930 9.69450 9.69490 9.67290 9.66090 9.59040	8ETA ~4.97590 ~4.98360 ~4.98390 ~4.97770 ~4.97590 ~4.98040 ~4.96340	CY .04260 .04310 .04170 .04320 .04980 .05090	CLN .01310 .01200 .01240 .01260 .01340	CSL .00500 .00420 .00390 .00230 00240 00270

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

			CAZO	747/1	01 51	C	RBITER DATA		(CGN09	a) (50 Y	AN 75 )
	REFERENC	E DATA							PARAMETRIC	DATA	
SREF = 2	690.0000 <b>S</b> Q.	FT. XHRP	<b>=</b> 1109.0	000 IN.XO				ALPHAC =	4.000	BETAC =	.000
LREF =	474.8100 IN.	YHRP	0	000 IN.YO				ELV-IB =	.890	ELY-08 *	3.000
BREF =	936.6600 IN.	ZMRP	= 375.0	808 IN.ZO				ELEVON .	5.000	HACH #	.600
SCALE .	.0308							BETAG .	-5.000	PHI -	7.500
								DX =	.080	DY =	10.000
		RUN NO	. 803/ 0	RN/L =	3.29 GRA	DIENT INTER	RVAL = -1.0	D/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
10.589	.754	. 59940	.66640	10.56860	-4.90970	7.50000	5.84440	00200	.05090	.01328	00020
10.591	3.692	.59900	.46860	10.56500	-4.90860	7.50000	5.84070	.00000	.94990	.01350	.00000
10.585	7.812	.60050	. 18690	10.57170	-4.91050	7.50000	5.83450	.00630	.05050	.01340	.00030
10.587	15.159	.6802G	31050	10.56790	-4.91080	7.50000	5.82350	.00350	.04860	.01440	.00080
10.599	28.483	.60030	-1.22300	10.59910	-4.92080	7.50000	5.81450	00380	.05160	.01430	.00120
10.609	45.607	.60050	-2.39880	10.61570	-4.92840	7.50080	5.80530	.00550	.05350	.01470	.00120
10.609	47.846	.60020	-2.55520	10.61480	-4.92850	7.50000	5.80550	.00650	.05320	.01490	.00120
	GRADIENT	08014	06755	00123	.0003B	.00000	00125	.00068	~.00034	.00010	.00007
		RUN NO	. 806/ 0	RN/L =	3.28 GR/	DIENT INTER	RVAL = -1.0	0/ 4.00			
ALPHAO	DZ	насн	ОX	DY	SETAC	PHI	ALPHAH	BETA	CY	CLN	CST
14.807	2.070	.60080	39660	10.63100	-4.34420	7.50000	5.88990	.00980	.04780	.01190	00130
14.795	5.158	.60030	60460	10.62780	-4.34220	7.50000	5.88820	.01080	.04770	.01170	00130
14.785	9.244	.59960	08860	10.62780	-4.34280	7.50000	5.88130	.00310	.04750	.01150	00150
14,782	17.214	.60030	-1.43520	10.62940	-4.34560	7.50000	5.86420	.01620	.04740	.01260	00190
14.782	31.661	.59940	-2.42890	10.65410	-4.35590	7.50000	5.84360	.01300	.05850	.01300	00250
14.778	47.097	.60050	-3.49310	10.66870	-4.36210	7.50000	5.03380	.01160	.05150	.01340	00280
14.777	61.842	.60859	-4.52010	10.68370	-4.37040	7.50000	5.83040	.02120	.05350	.01390	00280
	GRADIENT	.00800	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ALPHA0

DZ

GRADIENT

HACH

-.08030

ρx

-.13742

DY

-.00236

CSL

.00037

CLN

-.00003

DATE	01	DEC 7	5		TABUL	LTED	SOUR	ICE DA	ATA - C	YSD										3015	384	1
							CA	50	747/1	Q	SI		ORE	BITER	DATA	•		(CONO)	39) (	20 JAN	75	1
			REFE	RENCE I	ATA													PARAHETRIC	DATA			
SREF	=	2690	.0000	SQ.FT	SHALK .		1109	.0000	IN.XQ							ALPHA	.c =	8.000	BETAC	_	.00	'n
LREF	*	474	.8160	IN.	YHRP	•		.0000	IN.YO							ELV-1	_	.000	ELV-08		3.00	
BREF	=	936	. 6900	IN.	ZHRP	-	375	.0000	IN.ZO							ELEVO	-	5.000	HACH		3.0.0	
SCALE	=		.0300													BETAO	=	-5.000	PHI	_	7.5	-
																DX	-	.000	ĐY	•	10.01	٥
					RUN NO.	8	15/ 0	R	H/L =	3.	26	GRADIENT	INTERVA	L =	-1.6	D/ 4.	00					

PHI

.00000

ALPHAH

+.00043

BETA

-.00320

-.00867

BETAO

						4 115	VEL: IVI	DEIA	L1	LLN	CSL
10.406	598	-60000	96760	10.55670	-4.93340	7.50000	9.67260	00310	.05690	.01430	02530
10.423	3.005	.69030	-6.45270	10.54650	-4.92570	7.50000	9.66800	00610	.05360	.01450	6250
10.446	7.573	.60010	-2.07700	10.53970	-4.91900	7.50000	9.66960	00850	.05090	.01470	00300
10.468	15.463	.60050	-3.15600	10.53870	-4.91500	7.50000	9.66200	00260	.04840	.01520	00308
10.541	30.172	.59930	-5.18260	10.56410	-4.91980	7.50000	9.65470	.00010	.04930	.01580	00030
10.563	44.895	.59930	-7.22310	10.58760	-4.92650	7.50000	9.64680	.00120	.05100	.01590	-00030
10.567	47.483	.60010	-7.43590	10.58970	-4.92750	7.50000	9.54790	.00120	.05060	.01610	.00030
	GRADIENT	.00008	13458	00283	.00214	.00000	00128	00083	00092	.00006	.00036
		RUN N	O. 809/ O	RN/L =	3.27 GR/	NJENT INTER	TVAL = -1.0	10/ 4.00			
ALPHA0	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
14.690	.880	.60010	-2.20570	10.62000	-4.36030	7.50000	9.78690	.00160	.05290	.01150	00016
14.694	3.683	.59920	-2.61840	10.61290	-4.35390	7.50000	9.78560	00800	.05090	.01150	.00100
14.701	0.089	.59980	-3.19440	10.60340	-4.34950	7.50000	9,77680	.00438	.04870	.01160	.00160
14.719	15.578	.60050	-4.22508	10.60120	-4.34600	7.50000	9.76790	00550	.04600	.01230	.00210
14.734	30.598	.59970	-6.31890	10.63630	-4.35490	7.50000	9.75500	00450	.05030	.01280	00260
14.751	45.433	.60000	-8.38220	10.65290	-4.36030	7.50000	9.74330	00010	.05080	.01350	00260
14.752	60.072	.59990	-10.42840	10.66490	-4.36690	7.50000	9.73740	.00100	.05130	.01550	00280
	CDADICAIT	- 00070	- 1771.7	00070	000.0					******	00500

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

PAGE 369 (CGN108) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.088 BETAC = 5.000 1109.0000 IN.XO XHRP = SREF = 2690.0000 SQ.FT. ELV-IB = .000 ELY-08 -3.000 .0000 IN.YO 474.8100 IN. YMRP = .600 ELEVON = 5.000 HACH 375.0000 IN.ZO ZHRP = BREF \* 936.6800 IN. BETAO = -5.000 PHI 7.500 .0300 SCALE \* DY 10.000 ĐΧ .008 3.31 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 802/ 0 RN/L = CLN CSL BETAO PHI **ALPHAH** BETA CY DY DZ HACH DX ALPHAO .00990 -.00630 7.50000 5.84060 4.96470 .05400 9.42040 -4.89370 .66220 10.632 .542 .60000 -.00430 7,50000 5.83720 4.97190 .05370 .01070 .47030 9.42520 -4.89960 .68040 10.612 3.385 5.83210 4.98920 .65410 .01120 -.00270 -4,98530 7.50000 .18040 9.43110 .60000 10.597 7.664 -.00100 .05310 .01210 4.96770 -4.91010 7.50000 5.82130 .60080 -.35820 9.44230 10.597 15.623 .00048 -4.91870 7.50000 5.81040 4.98430 .05310 .01340 -1.38180 9.45100 30.599 .59980 10.604 5.80330 4.97660 .05430 .01400 08000. 7.50000 -2.38970 9.46750 -4.92620 10.607 45.321 .60010 .05520 .01370 .00000 4.98460 .59960 -2.56310 9.47050 -4.92700 7.50000 5.80230 47.816 10.608 .00070 .00253 -.00011 .00028 -.06749 .00169 -.00207 -.00000 -.00120 GRADIENT .00014 GRADIENT INTERVAL - -1.00/ 4.00 RN/L = 3.28 RUN NO. 807/ 0 CSL **AT38** CY CLN ALPHAH DY BETAO IH9 HACH DX ALPHAO DZ -.00410 4.97110 .04900 .01120 9.55980 -4.33510 7.50000 5.85930 -.39040 2.020 .59920 14.862 5.85320 4.97710 .04790 .01100 -.00360 -4,33560 7.50000 9.55940 -.58900 14.831 4,948 .60030 .01120 -.00290 4.98400 .04840 7.50000 5.84700 .60040 -.87690 9.56420 -4.33950 9.169 14.807 .01200 -.00260 -4.34260 7.50000 5.83710 4.98590 .04820 -1.40070 9.56640 16.781 .59910 14.793 .01330 -.00260 5.81770 4.99680 .64890 -4.35320 7.50000 9.57980 14.783 31.685 .59990 -2.41640 4.98200 .05030 .01360 -.00280 5.80880 -3.45430 9.59590 -4.35050 7,50000 46.890 .60039 14.782 -.00300 7.50000 5.80130 4.99120 .05150 .01440 9.60740 -4.36720 -4.49120 61.889 .60060 14 777 .000000 .00000 .00000 .08080 .00000 .00000 .00000 .00000 GRADIENT .00000 .00000

CA20 747/1 01 51 ORBITER DATA (CGN101) ( 20 JAN 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SQ.FT. \* 1109.0000 IN.XO XMRP ALPHAC = BETAC . B.000 5.000 LREF 474.8100 IN. YMRP .0000 IN.YO ELV-18 = .000 ELV-08 = 3.000 SREF = 935.6800 IN. ZMRP = 375,0000 IN.ZO ELEVON = 5.000 MACH .600 SCALE = .0300 BETAO --5.000 PH! 7.588 DX .000 DY 10.000 RUN NO. 813/ 0 RN/L = 3.25 GRADIENT INTERVAL # -1.00/ 4.00 ALPHAO ĎΖ MACH DX OY **BETAO** PHI ALPHAN BETA ÇY CLN CSL 10.452 .59950 -.442 -1.00350 9.33640 -4.90170 7.50000 9.67500 5.00340 .05570 .01060 -.01116 10.446 3.090 .59940 -1.48320 9.34360 -4.90830 7.50000 9.67640 4.99520 .05390 .01220 -.00790 10.457 7.446 .59950 -2.07650 9.33990 -4.90990 7.50000 9.67680 5.00300 .05120 .01350 -.00570 10.492 15.406 .60030 -3.16620 9.35320 -4.91170 7.50000 9.67040 4.98840 .04980 .01420 -.80330 10.544 30.322 .59990 -5.21950 9.36460 -4.91650 7.50000 9.66170 5.00330 .04840 .01570 -.00100 10.565 44.966 .60030 -7.24190 9.39730 -4.92340 7.50000 9.65900 4.99650 .04980 .01530 -.00020 10.569 47.470 .59940 -7.59050 9.39030 -4.92370 7.50000 9.65730 4.99660 .05030 .01580 -.00010 GRADIENT -.00003 -.13580 .00204 -.00187 -.00000 .00040 -.00232 -.00051 .80845 .00091

RUN NO. 808/ 0 RN/L = 3.28 GRADIENT INTERVAL = -1.80/ 4.6 ALPHAO MACH DX ġ. ΒY BETAO PHI ALPHAN BETA CY CLN CSL 14.737 1.500 .59980 -2.26990 9.52840 -4.34530 7.50000 9.70840 4.96760 .05450 .00970 -.00580 14.727 4.732 .59970 -2.70730 9.51530 -4.34640 7.50000 9.70310 4.97450 .05240 .01840 -.00290 14.725 9.125 .60070 -3.30300 9.50660 -4.34710 7.50000 9.69750 4.99770 .04990 .01110 -.00000 14.735 16.820 .59920 -4.35290 9.50260 -4.34540 7,50000 9.68820 4.98480 .04580 .01220 .00130 14.755 31.671 .60060 -6.39490 9.52470 -4.35200 7.50000 9.67968 4.98700 .04810 .01299 -.00020 14.761 46.564 .60030 -0.45280 9.53750 -4.35700 7.50800 9.67160 4.98740 .04880 .01370 -.00140 14.756 61.712 .60010 -10.55320 9.56010 -4.36590 7.50000 9.66500 4.98810 .05180 .01380 -.00260 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00080 .00000 .00000 .00000

And the state of t

DATE DI DEC 75

TABULATED SOURCE DATA - CA20

DATE OI DEC 75	TABULATED SUCR	TE DATA - CV	20						
	CA	20 747/1	01 51	O	RBITER DATA		(CGM10	N. 0S 3 €	N 75 )
REFERENC	C DATA						PARAMETRIC	DATA	
HEFERENC	L UAIA								
SREF = 2690.0080 SQ.	FT. XHRP = 1109	.0000 IN.XO				ALPHAC =	4.000	BETAC =	-5.000
	, , , , , , , , , , , , , , , , , , , ,	.0000 IN.YO				ELV-18 =	.000	ELV-OB .	3.000
_,		.0000 IN.ZO				ELEVON =	5.000	HACH =	.600
	Tram - 214	10000 11111				BETAC #	-5,080	PH) =	7.500
SCALE = .0300						DX -	.000	DY =	10.000
	RUN NO. 815/0	RN/L -	3.26 GRA	DIENT INTER	YAL = -1.0	10/ 4.00	•		
	HACH DX	DY	BETAC	PHI	ALPHAH	BETA	CY	CLN	CSL
ALPHAO DZ	.6007039550	_	33750	7.50000	5.87520	-4.98760	.03850	.01470	.00220
14.790 1.983	.6000059210	•	-4.33630	7.50000	5.87430	-4.99050	.04130	.01340	.00090
14.773 4.801	.5997089890		-4.33780	7.50000	5.86980	-4.98350	-0-110	.01358	.00150
14,771 9,259	• •		-4.34500	7.50000	5.86010	-4.9799D	.64340	.01370	.00070
14.778 16.962	•		-4.35920	7,50000	5.84300	-4.97290	.04690	.01460	00030
14.773 31.562		**	-4.36560	7,58000	5.82880	-4.97390	.04860	.01480	60070
14.769 46.760	.60020 -3.47550		-4.37310	7.50000	5.82040	-4 97220	.05020	.01540	00090
14.769 61.866	.60010 -4.51840		.00000	.00000	.00000	.00000	.00000	.00000	.00000
GRADIENT	.00000 .00000.	.00000	.00000	.00000	10000	*******	• • • • • • • • • • • • • • • • • • • •		
	C.	20 747/1	01 51	c	RBITER DATA		(CGN10	13) (50 7	AN 75 I
referen	CE DATA						PARAMETRIC	ATAG :	
						ALPHAC =	4.000	BETAC =	.000
SREF - 2690.0000 SQ	•• ••	0X.NI 0000.0				ELV-IB .	.000	# E0-V.13	3.000
LREF = 474.8100 IN		.0000 IN.YO				ELEVON =	5.000	HACH =	.600
BREF = 936.6800 IN	. ZMRP = 375	5.0000 IN.ZO				BETAO =	-5.000	PH1 =	7,500
SCALE .0300						DX =	.000	DY =	10.000
		. 504 -	3.24 GR	ADIENT INTER	RV41 = -1.	00/ 4.00			
	RUN NO. 814/	O RN/L *	3.61 05	ADILII IIIIC		•••			
ALPHAO DZ	HACH DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
14.793 2.161	.600803917	10.63030	-4.34420	7.50000	5.88550	01290	.04710	.01220	00170
14.782 5.231	.599706047	0 10.62790	-4,34280	7.50000	5.87880	-,01210	.04690	.01210	00150
14.771 9.123	.599208759		-4.34290	7,58000	5.67490	02000	.04690	.01220	00170
	.69950 -1.4002			7.50000	5.86050	01430	.04580		00200
• • • • • • • • • • • • • • • • • • • •	.60020 -2.4189			7.50000	5,83930	02550	.04890		00260
• • • • • • • • • • • • • • • • • • • •	.60020 -3.4638			7.50000	5.82970	01910	.04870		00280
14.767 46.769	.59960 -4.4907			7.50000	5.82390	00940	.65800	.01530	00290
14.766 61.571 GRADIENT	0000. 00000.			,00000	.00000	.00800	.00000	.00000	.00000

CA20 747/1 01 SI

ORBITER DATA

(CGN104) 1 20 JAH 75 3

### REFERENCE DATA

	REFERENCE	DATA						1	PARAMETRIC	DATA	
LREF =	690.0000 SQ.F 474.8100 1N. 936.6800 IN. .0300	T, XMRP YMRP ZMRP	0	000 IN.XO 000 IN.YO 00.HI 000				ALPHAC = ELV-1B = ELFVON = BETAO = DX =	4.000 .000 5.000 -5.000 10.000	BETAC = ELV-08 = MACH = PHI = DY =	-6.000 3.000 .600 .000
		RUN NO	. 630/ 0	RN/L =	3.29 GRAD	LENT INTER	VAL1.0	10/ 4.86			
ALPHAO	DZ	MACH	ВX	DY	BETAG	PHI	ALPHAH	BETA	CY	CLN	CSL
10.325	-1.343	.60050	10.81020	2.27280	-5.21650	.00000	5.82520	-4.95370	.03810	.01890	.00990
10.312	1.885	.60080	10.60190	2.28000	-5.21910	.00000	5.82640	-4.94080	.64066	.01900	.00530
		.60070	10.30090	2.29610	-5.22500	.00000	5.82270	-4.94640	.04290	.01900	.00330
10.306	6.300				-5.23200	.00000	5.81650	-4.94080	.04650	.01880	.00180
10.313	13.860	.60000	9.79720	2.31560			5.80760	-4.95590	.05040	.01850	.00100
10.331	28.690	.60030	8.77630	2.34420	-5.24080	.00000					.08030
10.341	43.891	.60840	7.73970	2.34160	-5.24020	.00000	5.79900	-4.93970	.65120	.01820	
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-00000
		RUN NO	. 835/ 0	RN/L =	3.27 GRAI	DIENT INTER	VAL = -1.0	10/ 4.00			
41 20140	0.7	MACU	ΩY	Ω¥	PETAD	PHI	ALPHAH	BETA	CY	CLN	car

ALPHAO 14.692 14.669 14.657 14.654 14.657 14.663	DZ 1.273 4.371 8.918 16.303 31.560 46.389	MACH 000000 0000000 010000 000000 010000 010000	9.46210 9.25780 8.95000 8.44290 7.39910 6.38570	8.19680 2.20440 2.21950 2.24340 2.26540 2.27270	BETAO +5.18550 -5.19130 +5.19620 -5.20370 -5.21650 -5.21650	PHI .00000 .00000 .00000 .00000 .00000 .00000	5.85310 5.84860 5.84860 5.83620 5.82260 5.82260	BETA -4,95420 -4,94840 -4,94910 -4,94910 -4,94510 -4,94850	CY .04290 .04370 .04620 .05610 .05670	CLN .01510 .01550 .01660 .01660 .01680	.01250 .00980 .00740 .00240 00140 00220
14.653 14.672	46.389 61.453 GRADIENT	.59940 .59910 .00000	6.38570 5.36270 .00000	2.25720 2.25720 .00000	-5.21250 -5.21370 .00000	.00000	5.80460 5.80460	-4.94790 -4.94790 .00000	.05240 .88880	.01820	.00290

DATE OI DEC 75

14.650

59.174

**GRADIENT** 

-.00013

-.13280

TABULATED SOURCE DATA - CARD

(CCH105) ( 20 JAN 75 ) 747/1 01 51 ORBITER DATA PARAMETRIC DATA REFERENCE DATA -5.000 ALPHAC = 8.000 BETAC = XMRP = 1109.0000 IN.XO SREF . 2690.0000 SQ.FT. ELV-08 -3.000 ELV-IB = .000 .0000 IN.YO YMRP 474.8108 IN. LREF = 5.000 HACH .600 ELEVON -ZMRP = 375,0000 IN.ZO 936.6800 IN. BREF = .000 BETAO = -5.000 PHI SCALE = .0300 10.000 DY .000 ĐΧ GRADIENT INTERVAL = -1.00/ 4.00 3.26 RUN NO. 841/ 0 RN/L = CLN CSL BETA CY ALPHAN BETAO PHI DY DZ MACH DX **ALPHAO** .00690 .01750 .03270 9.65170 -5.00970 2.28520 -5.19050 .00000 .60000 9.37130 -3.649 10.296 .00250 .01930 9.65150 -5.00360 .03350 -5.19890 .60000 2.29580 .60070 8.97290 10.307 -.020 .01940 .00020 -5.00320 .03880 .00000 9.65270 0.34450 2.32580 -5.21110 .59940 10.328 4.578 -.00110 .01920 9.65220 -5.01160 .04400 2.35920 -5.22350 .00000 7.32250 12.650 .59930 10.359 .01910 -\_09100 -5.00940 .04930 .00000 9.64590 -5.23710 2.39020 27.168 .59920 5.23740 :0.437 .01850 -.00110 .05130 9.53980 -4.99400 -5.24050 .00000 .60070 3.20170 2.39590 10.469 41.982 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.31 RUN NO. 836/ 0 CSL CY CLN **ALPHAH** BETA DY BETAO PHI HACH ΩX **ALPHAO** DZ .01270 .01750 -4.94920 .03130 9.68170 2.17100 -5.16570 .00000 .60080 7.91490 -.709 14.545 .00970 .03500 .01790 9.69270 -4.94640 2.19280 -5.17480 .00000 7.49070 .60040 14.535 2.486 .01760 .00800 9.67370 -4.94690 .04000 -5.18440 .00000 6.86490 2.22050 7.114 .60040 14.550 .00670 .04460 .01760 -4.94090 -5.19520 .00000 9.66760 2.24480 .60010 5.87150 14.571 14.418 .01780 .00520 .04940 .00000 9.66010 -4.94920 2,27660 -5.20660 29.342 .59920 3.82840 14.610 .00440 9.65230 -4.94820 .05090 .01770 2.28750 -5.21020 .00000 .60030 1.75100 14.638 44.463 .00400 -4.94020 .05140 .01820 .00000 9.64650 -5.21320 -,27960 2.28950 .60010

PAGE 373

.00116

.00988

.00031

.80000

-.00254

.00692

.00013

-.08094

DATE OI DE	C 75	TABUL	ATED SOURCE	DATA - CA	20					PAG	E 374
			CV58	747/1	01 St	٥	ROITER DATA		CONTO	W 08) (8	N 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	T. XHRP YHRP ZHRP	= .8	000 IN.XO 1000 IN.YO 1000 IN.ZO				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4.000 .000 5.000 -5.000	BETAC = ELV-0B = MACH = PHI = DY =	-5.000 3.000 .600 .600
		RUN NO	. 844/ 0	RN/L =	3.30 GRAD	DIENT INTER	IVAL = -1.0	00/ 4.00			
ALPHAO 10.440 10.421 10.417 10.423 10.442 10.451	DZ 768 2.266 6.604 14.060 29.201 44.256 GRADIENT	MACH .59920 .59970 .59950 .59930 .60090 .59990 .00016	0X .77820 .58010 .26450 22360 -1.26360 -2.29630 06534	DY 11.46800 11.45390 11.45320 11.46500 11.49370 11.50760 00399	8ETAD -5.24580 -5.23960 -5.23900 -5.24390 -5.25780 -5.26440 .00204	PHI .00000 .00000 .00000 .00000 .00000	ALPHAH 5.84320 5.84170 5.83810 5.82890 5.82110 5.81170 00049	8ETA -4.97280 -4.96410 -4.95640 -4.96580 -4.98170 -4.89130	CY .04680 .04510 .04540 .04680 .04990 .05180	CLR .01750 .01730 .01710 .01720 .01760 .01770	CSL 00070 00060 00990 00100 00050 00030
			CARO	747/1	01 51	c	RBITER DATA	٨.	(CCH10)	71 1 20 JA	N 75 J
	REFERENCE	DATA							PARAHETRIC	DATA	

SREF LREF BREF SCALE	-	_	IN. IN.	XHRP YHRP ZHRP	-	1109.0000 .0000 375.0080	IN.YO	ALPHAC ELV-19 ELEVON BETAO DX	-		PHI	
-------------------------------	---	---	------------	----------------------	---	--------------------------------	-------	-------------------------------------------	---	--	-----	--

		RUN NO	). 819/ O	RN/L =	3.26 GRA	DIENT INTER	IVAL = -1.0	30/ 4.00	
ALPHAO	DŽ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY
10.347	-1.294	.60000	10.79930	12.27000	-5.22040	.00000	5.82480	<del>-4</del> .94250	.04720
10.332	1.624	.59960	10.60860	12.25380	-5.21300	.00000	5,82770	-4.94090	.04410

ALPHAO 10.347 10.332 10.329 10.340 10.361 10.373	DZ -1.294 1.624 6.160 13.665 28.609 43.844 GRADIENT	MACH .60000 .59960 .59980 .59960 .60000 .59970	0X 10.79930 10.60860 10.30320 9.79210 8.77050 7.72830	DY 18.27000 18.25380 18.25560 12.26580 12.29260 12.30200	9ETA0 -5.22040 -5.21300 -5.21390 -5.21790 -5.22970 -5.23610 .00000	PHI .00000 .00000 .00000 .00000	ALPHAH 5.82480 5.82770 5.82490 5.81970 5.81120 5.80290 .00000	BETA -4,94250 -4,94090 -4,94080 -4,94980 -4,95700 -4,94920	CY .04720 .04410 .04450 .04610 .04610 .05100 .00000	CLN .01690 .01710 .01710 .01710 .01750 .01778	CSL 00138 00130 00160 00180 00110 00070
--------------------------------------------------------------------	--------------------------------------------------------------------------	------------------------------------------------------------------	-------------------------------------------------------------------------	----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------	---------------------------------	------------------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------------	-----------------------------------------------------------------	-----------------------------------------------------------

GRADIENT INTERVAL = -1.00/ 4.00

-5.000 3.000

.500 .080 10.000

DATE	01	DEC	75
------	----	-----	----

DATE O1 D	EC 75	TABULAT	TED SOURCE	DATA - CA	20					PAG	E 375
			CVS0	747/1	OI SI		ORBITER DATA		(CGN10	7) (20 JA	и 75 )
	REFERENCE	DATA							PARAHETRIC	DATA	
SREF = LREF = GREF = SCALE =	2690.0000 SQ.FT 474.8100 IN. 936.6800 IN. .0300	T. XMRP YMRP ZMRP	= .00	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-1B = ELEVON = BETAD = DX =	4.000 .000 5.000 -5.000 10.000	BETAC = ELV-08 = HACH = PHI = OY =	-5.000 3.000 .600 .000
		RUN NO.	820/ 0	RN/L =	3.25 GRAD	DIENT INTE	RVAL = -1.0	0/ 4.00			
ALPHAO 14.674 14.656 14.655 14.655 14.666 14.669 14.671	02 2.198 5.136 9.779 17.264 32.135 47.232 82.686 GRADIENT	HACH .59990 .59950 .59920 .60090 .60020 .59990 .60090	0X 9.40160 9.20660 8.69800 8.39210 7.36720 6.32980 5.31860 .00000	DY 12.14780 12.15380 12.15850 12.17450 12.19480 12.21060 12.22610 .00000	9ETAD -5.18880 -5.18230 -5.18330 -5.18930 -5.20170 -5.20820 -5.21580 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.84790 5.64880 5.84540 5.83750 5.82280 5.81630 5.80290 .00000	8ETA -4.84690 -4.94700 -4.94090 -4.94980 -4.94830 -4.95250 -4.94930 .00000	CY .03960 .04200 .04360 .04550 .04920 .05120 .05350 .00000	CLN .01940 .01710 .01660 .01680 .01730 .01760 .01810 .00000	CSL .00500 .00450 .00400 .00370 .00320 .00260 .00230
	REFERENCE	DATA							PARAHETRIC	DATA	
SREF =   LREF = BREF = SCALE =	2690.0000 SQ.F 474.8190 IN. 936.6890 IN. .0380	T. XHRP YMRP ZMRP	<b>=</b> .00	000 IN.XO 080 IN.YO 000 IN.ZO				ALPHAC = ELY-IB = ELEVON = BETAO = OX =	8.000 .000 5.000 -5.000 10.000	BETAC = ELV-08 = HACH = PHI = DY =	-5.000 3.000 .600 .000
		RUN NO.	6/ 0	RN/L =	3.24 GRA	DIENT INTE	RVAL = .0	10, 12.00			
ALPHAO 10.102 10.121 10.146 10.184	-2,746 .382 4.894 12.419	HACH .60020 .60070 .60050	DX 9.41230 8.99580 8.39130 7.35250	DY 12.35040 12.32340 12.31250 12.30890 12.33560	BETAO -5.23470 -5.21950 -5.21280 -5.21150 -5.22430	PH1 .00000 .00000 .00000 .00000	ALPHAH 9.67100 9.67210 9.67360 9.66950 9.66320	BETA -4.96040 -4.96600 -4.96550 -4.95820 -4.97280	CY .05400 .04850 .04670 .04650 .04920	CLN .01690 .01700 .01660 .01670 .01720	CSL 00710 00730 00740 00680 00480
10.257	27.611 42.408 GRADIENT	.59910 .60860 +0080	5.25330 3.20660 13620	12.33550	-5.23390 -6.00162	.00000	9.66060	-4.96480 -00011	.05140	.01740 00009	000330

CA20 747/1 01 51

(CGN108) ( 03 SEP 75 3

ORBITER DATA

	REFERENC	E DATA						1	PARAMETRIC	DATA	
LREF =	690.0000 SQ. 474.8100 IN. 936.6800 IN. .0300	FT. XHRP YHRP ZHRP	.0	800 IN.XO 800 IN.YO 800 IN.ZO				ALPHAC = ELV-1B = ELEYON = BETAO = DX =	8.000 .000 5.000 -5.000 10.000	BETAC = ELV-08 = HACH = PHI = DY =	-5.000 3.000 .600 .000
		RUN NO.	0/ 8	RN/L =	3.24 0	RADIENT INTERV	/AL	00/ 12.00			
		M1611	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
ALPHAD	DZ	HACH	7.87850	12.21900	-5.19280		9.70100	-4.94840	.04830	.01740	00150
14.529	426	.59900	7.47560	12.21350	-5.18440	·	9.69960	-4.94880	.64790	.01580	08080
14.532	2.587	.60000 .59950	6.84400	12.20290	-5.18130		9.69590	-4.94130	.64610	.01600	00040
14.546	7.238	.59940	5.81040	12.20650	-5.18370		9.68990	-4.94590	.04620	.01620	.00968
14.574	14.804 29.618	.60010	3.77810	12.23240	-5.19730		9.68030	-4.95430	.04900	.01630	.00190
14.612	29.618 44.623	.59980	1.70940	12.24440	-5.20570		9.67240	-4.94390	.05160	.01730	.00268
14.638 14.647	59.279	.68050	31680	12.25690	-5.21300		9.65660	-4.94210	.05250	.01780	.00290
14.047	GRADIENT	00011	13596	00228	.00057		00080	.00161	00039	.00004	.00003
	REFERENC	E DATA	CARC	3 747/1	01 51	O.	ROTER DAT		(CGN10		UK 75 )
	2690.0000 SQ. 474.8100 IN. 936.6800 IN. .0300	YHRP	<b>.</b>	0800 IN.XO 0800 IN.YO 0800 IN.ZO				ALPHAC = ELV-IB = ELEVON = BETAO = OX =	4.000 .000 5.000 -5.000 10.000	BETAC = ELV-OB = HACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO.	8317 0	RN/L =	3.27	GRADIENT INTER	VAL = -1.	.00/ 4.00			
ALPHAO	DZ	MACH	ĐΧ	DY	BETAO	PH!	ALPHAH	BETA	CA	CLH	CSL
10.322	-1.388	.59950	10.83060	.35760	-5.2401	00000.	5.82770	.01750	.04920	.01940	00030
10.305	1.603	.59900	10.63220	.35120	-5.2366	00000.	5.82730	.01740	.04820	.01940	00070
10.302	6.139	.59960	10.32610	.35200	-5.2339	00000.	5.82560	.01920	.04870		00100
10.302	13.778	.60010	9.80690	,35410	-5.2336	00000.	5,91850	.02270	.04920		00090
10.332	28.819	.60010	9.78170	.36250	-5.2392	08000.	5.80830	.02410	.05060		00030
10.335	43.741	.59970	7.76010	.36160	-5.2365	00000.	5.80220	.02420	.05070	.01790	00030

.00000

.00000

.00000

.59970

.00000

43.741

GRADIENT

10.343

.00000

.00000

.00000

.00000

.00000

DATE 01 DEC 75

TABULATED SOURCE DATA - CA20

(CGN109) ( 20 JAN 75 ) CA28 747/1 01 51 ORBITER DATA PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 4.000 BETAC . XHRP . 1109.0000 IN.XO SREF - 2690,0000 SQ.FT. ELV-08 = 3.000 .000 ELV-18 . .0000 IN.YO YMRP . 474.8100 IN. LREF = HACH .600 ELEVON = 5.000 375.0000 IN.ZO ZHRP = 936.6800 IN. BREF = .000 RETAC = -5.000 PHI .0300 SCALE = .000 10.000 DY ΠX GRADIENT INTERVAL # -1.00/ 4.00 3.29 RUN NO. 834/ 8 RN/L = CLN CSŁ ALPHAH BETA CY BETAO PHI ĐΥ ALPHAO DZ HACH ĐΧ .04720 .01820 .00510 .04520 .00000 5.85520 .34230 -5.28480 .928 .60020 9.50130 14.694 .00560 .01780 .04780 5.85320 .04700 .34420 -5.20390 .00000 .60080 9.29690 14.676 3.997 .00510 .01730 .00000 5.84700 .64148 .04690 -5.20340 0.99580 .35120 14.659 8.486 .60030 .01710 .00420 .05340 .05030 5.03780 .35490 -5.20500 .00000 .60010 9,47870 14.680 16.091 -.00180 .65580 .01660 .05560 -5.20880 .00000 5.82070 .37940 .59990 7,44890 31.106 14.656 -.08240 5.81320 .05490 .05570 .01690 .08080 -5.20940 6.42710 .37940 46.023 .60010 14.662 .00280 .01810 .05210 .05130 5.88510 .35910 -5.21050 .00000 .59930 5.41320 60.943 14.673 -.00013 -.00015 .02020 -.00065 .00059 .00020 .00029 ~.06659 .00052 .00020 GRADIENT (CGN110) ( 20 JAN 75 ) ORBITER DATA CAZO 747/1 OI SI PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 6.000 BETAC = XHRP = 1109.0000 IN.XO SREF = 2690.0080 SQ.FT. .000 ELY-08 = 3.000 ELV-1B = .0000 IN.YO LREF - 474.8100 IN. YMRP MACH .600 ELEVON = 5.600 375.0000 IN.ZO 936.6800 IN. ZHRP BREF = -000 BETAO = -5.000 PHI SCALE = .0300 .000 10.000 DY DX GRADIENT INTERVAL = -1.00/ 4.00 3.28 RN/L = RUN NO. 840/ 0 CSL CLN PHI ALPHAH BETA CY BETAO צם DY MACH **ALPHAO** DZ -.00418 .05490 .02170 9.65720 .05380 .00000 -5.26550 .60080 9.37460 .38610 10.304 -3.002 -.00450 .02070 .05400 .05160 9.65930 .36130 -5.24980 .00000 0.98600 -.075 .59930 10.306 -.08478 .01980 9.65690 .06260 .04960 -5.23870 .00000 .34360 .59980 8.36210 10.328 4.516 .01910 -.00410 .05410 .04890 9,64850 .00000 7.33520 .33740 +5.23350 12.075 .59940 10.369 -.00240 .01880 .06470 .05070 -5.23860 .00000 9.64510 .34810 5.29150 26.946 .69020 10.425 -.00150 .05490 .65150 .01820 .00000 9.64320 .35070 -5.23790 42.070 .59950 3.20180 10,467 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00800 GRADIENT

LREF = 474.8100 IN. YHRP = .0000 IN.YO  EREF = 936.6800 IN. ZHRP = 375.0000 IN.ZO  SCALE = .0300  RAN NO. 837/ 0 RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ HACH OX DY BETAO PH1 ALPHAH 8ETA CY CL 14.301 -2.363 .59980 8.18810 .38570 -5.22010 .00000 9.68140 .00420 .05180 .0  14.539 -1.012 .60010 7.96770 .38570 -5.21720 .00000 9.68140 .00420 .05170 .0  14.492 1.816 .60010 7.59820 .37440 -5.21070 .00000 9.68190 .00420 .05000 .0  14.537 2.114 .60080 7.55200 .37380 -5.21060 .00000 9.68180 .00420 .05900 .0  14.576 14.073 .59990 5.93050 .36460 -5.20440 .00000 9.67480 .01540 .04970 .0  14.612 29.194 .60010 3.66470 .37730 -5.20970 .00000 9.65280 .01610 .04930 .0  14.651 58.932 .5998022740 .37490 -5.20970 .00000 9.65280 .01610 .65090 .0  14.651 58.932 .5998022740 .37490 -5.20970 .00000 9.65280 .01610 .65090 .0  14.651 58.932 .5998022740 .37670 -5.21130 .00000 9.65280 .01740 .05120 .00000	ALPHAC = 8.000 BETAC = .000 ELV-1B = .000 ELV-0B = 3.000 ELEVON = 5.000 HACH = .600 BETAO = -5.000 PH1 = .000		0000 IN.YO	0	SO.FT. XMRP		
LREF = 474.8100 IN. YHRP = .0000 IN.YO  EREF = 936.6800 IN. ZHRP = 375.0000 IN.ZO  SCALE = .0300  RAN NO. 837/ 0 RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ HACH OX DY BETAO PH1 ALPHAH 8ETA CY CL 14.301 -2.363 .59980 8.18810 .38570 -5.22010 .00000 9.68140 .00420 .05180 .0  14.539 -1.012 .60010 7.96770 .38570 -5.21720 .00000 9.68140 .00420 .05170 .0  14.492 1.816 .60010 7.59820 .37440 -5.21070 .00000 9.68190 .00420 .05000 .0  14.537 2.114 .60080 7.55200 .37380 -5.21060 .00000 9.68180 .00420 .05900 .0  14.576 14.073 .59990 5.93050 .36460 -5.20440 .00000 9.67480 .01540 .04970 .0  14.612 29.194 .60010 3.66470 .37730 -5.20970 .00000 9.65280 .01610 .04930 .0  14.651 58.932 .5998022740 .37490 -5.20970 .00000 9.65280 .01610 .65090 .0  14.651 58.932 .5998022740 .37490 -5.20970 .00000 9.65280 .01610 .65090 .0  14.651 58.932 .5998022740 .37670 -5.21130 .00000 9.65280 .01740 .05120 .00000	ELV-18 = .000 ELV-08 = 3.000 ELEVON = 5.000 HACH = .600 BETAO = -5.000 PH1 = .000		0000 IN.YO	0		2690.0000	
ALPHAO DZ HACH DX DY BETAO PHI ALPHAH 86TA CY CL 14.301 -2.363 .59980 8.18810 .38570 -5.22010 .00000 9.68140 .00420 .05180 .0 14.539 -1.012 .60010 7.96770 .38570 -5.21720 .00000 9.68610 .00410 .05170 .0 14.492 1.816 .60010 7.59820 .37440 -5.21070 .00000 9.68190 .00420 .05000 .0 14.537 2.114 .60080 7.55200 .37480 -5.21060 .00000 9.68180 .00420 .04970 .0 14.576 14.073 .59990 5.93050 .36460 -5.2040 .00000 9.67480 .01540 .04590 .0 14.612 29.194 .60010 3.66470 .37730 -5.20900 .00000 9.65010 .01160 .04930 .0 14.614 44.237 .60050 1.79770 .37490 -5.20970 .00000 9.65280 .01810 .65090 .0 14.651 58.932 .5998022740 .37670 -5.21130 .00000 9.654550 .01740 .05120 .0				- 375.0		935.6800	LREF =
14.301       -2.363       .59980       8.18810       .38570       -5.22010       .00000       9.58140       .00420       .05180       .0         14.539       -1.012       .60010       7.96770       .38570       -5.21720       .00000       9.58100       .00410       .05170       .0         14.492       1.816       .60010       7.59820       .37440       -5.21070       .00000       9.58190       .00420       .05000       .0         14.537       2.114       .60080       7.55200       .37380       -5.21060       .00000       9.68180       .60420       .04970       .0         14.547       6.572       .60090       6.95140       .36650       -5.20600       .00000       9.67480       .01540       .04940       .0         14.576       14.073       .59990       5.93050       .36460       -5.20900       .00000       9.67030       .01810       .04930       .0         14.612       29.194       .60010       3.66470       .37730       -5.20900       .00000       9.65280       .0160       .05090       .0         14.691       44.237       .60050       1.79770       .37490       -5.20970       .00000       9.65280       .01610	3.29 GRADIENT INTERVAL = -1.00/ 4.00	3.29	RN/L =	9 <b>37</b> / 0	RUN NO.		
CA20 747/I 01 SI ORBITER DATA (CCRN111)	-5.22010 .00000 9.58140 .00420 .05180 .01900 .00330 -5.21720 .00000 9.58190 .00410 .05170 .01900 .00348 -5.21070 .00000 9.58190 .00420 .05000 .01850 .00340 -5.21060 .00000 9.68180 .00420 .04970 .01860 .00350 -5.20600 .00000 9.67480 .01540 .04540 .01790 .00360 -5.20600 .00000 9.67480 .01840 .04930 .01770 .00400 -5.20900 .00000 9.67030 .01810 .04930 .01770 .00400 -5.20900 .00000 9.65010 .01160 .05090 .01760 .00400 -5.20970 .00000 9.65280 .01810 .05090 .01770 .00400 -5.21130 .00800 9.65280 .01740 .05120 .01010 .00370 -6.21130 .00800 9.64550 .01740 .05120 .01010 .00374	-5.2201 -5.2172 -5.2107 -5.2106 -5.2060 -5.2090 -5.2097 -5.2113	.38570 .38570 .37440 .37380 .36650 .35460 .37730 .377490 .37670	8.18810 7.96770 7.59820 7.55200 6.95148 5.93050 3.86470 1.79770 22740 15493	.59980 .60010 .60010 .60080 .60090 .59990 .60010 .60050	-2.363 -1.013 1.816 2.114 6.573 14.073 29.194 44.237 58.933	14.301 14.539 14.492 14.537 14.547 14.576 14.612 14.641
REFERENCE DATA PARAMETRIC DATA	PARAMETRIC DATA				ENCE DATA	REFER	
——————————————————————————————————————	ELV-IB = .000 ELV-08 = 3.000 ELEVON = 5.000 HACH = .500 BETAO = -5.000 PH1 = .000		0000 IN.YO 0000 IN.ZO	= 10 = 375.0	IN. YMRP IN. ZMRP	474.8100 936.6800	LREF = BREF =

**ALPHAH ALPHAO** DZ MACH ĐΧ DY BETAC PHI BETA CY CLH CZT 10.446 .60040 .80510 10.38400 -5.24130 .00000 5.84980 .06030 .04730 .01730 -.00580-.843 2.180 .59950 .59930 10.39070 -5.23930 .00000 5.84800 .05820 .04930 .01570 -.00970 10.429 10.39530 -5.23920 10.422 6.558 .59940 .29520 .00000 5.84290 .06270 .04870 .01590 -.00380 10.38990 5.83930 10.430 14.218 .59930 -.2254J -5.24230 .00000 .05110 .04860 .01630 -.00280 29.284 44.292 -1.25240 10.40340 -5.25400 .00800 5.82280 .05830 .04990 .01710 -.00130 10.443 .60070 -2.28280 5.81300 10.450 .60010 10.41680 -5.26110 .00000 .05180 .05150 .01750 -.00060 GRADIENT -.00030 -.06908 .00222 .00065 .00000 -.00028 -.00069 .00066 -.00053 .00036

DATE DI DEC 75

TABULATED SOURCE DATA - CA28

ORBITÉR DATA (CGN112) ( 20 JAH 75 ) CA20 747/1 OI SI PARAHETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC -.000 XHRP \* 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. ELV-1B = .000 ELV-OB = 3.000 LREF = 474.8100 IN. YMRP .0000 IN.YO ZMRP = 375,0000 IN.20 ELEVON = 5.000 MACH .600 935.6800 IN. EREF = .000 BETAO = -5.000 PHI SCALE = .0300 10.000 DX 10.000 DY GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.27 RUN NO. 818/ 0 CSL ALPHAH RETA CLN DY BETAO PHI CY ALFHAD DZ MACH DX -.00680 .00000 5.83140 .07500 .04750 .01700 -1.302 .59940 10.82850 10.31730 -5.21620 10.351 10.32040 -5.21560 .00000 5.03320 .07410 .64820 .01620 -.08570 10.62210 10.339 1.671 .60090 -.00480 .00000 5.02900 .07090 .04790 .01620 10.31910 -5.21570 10.338 6.235 .60093 10.31230 .04750 .01650 -.00360 5.82270 .06730 13.633 .60080 9.81000 10.31690 -5.21750 .00000 10.344 8.77700 10.32690 -5.22650 .00000 5.81020 .07450 .04900 .01720 -.00200 .60000 10.353 28.774 -.00120 -5.23270 .00000 5.60530 .08759 .05050 .01730 7.73940 10.34080 10.378 43.856 .60060 .00000 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT INTERVAL # -1.00/ 4.00 RUN NO. 821/ 0 RN/L = 3.24 ALPHAH BETA CY CLN CSL DETAO PHI ALPHAD DΖ HACH ĐΧ DY .00030 9.44540 10.32750 -5.18870 .00000 5.85900 .03750 .04420 .01830 .59920 14.874 1.871 5.65920 .03530 .04600 .01670 .00100 10.33400 -5.18670 .00000 4.908 .60040 9.24120 14.654 .00140 5.85220 .01460 .04630 .01650 .59950 8.92720 10.34080 -5.16670 .00000 14.651 9.491 .01670 .00210 10.34180 -5.16990 .00000 5.84220 .01970 .04670 .60000 8.43190 14.654 16.765 5.82769 .08710 .04900 .01720 .00293 10.36010 -5.19990 .00000 14.662 31.845 .59930 7.40100 .00270 6.36530 10.36580 -5.20490 .08000 5.81740 .01960 .05020 .01760 14.672 46.937 .59980 .00250 .00000 5.66840 .02060 .05240 .01780 .59950 5.35330 10.37880 -5.21170 14.669 61.691 .08000 .00000 .00000 .00000 .00000 .00080 .00000 GRADIENT .00000 .00000 .00000

10.262

10.293

27.432

42.263

GRADIENT

.59980

.60050

.00000

5.29070

3.24330

.00000

10.32470

10.33450

.00000

-5.22390

-5.23260

.08888

.00000

.00000

.00000

9.65690

9.65240

.00000

.08520

.09340

.00000

.04980

.05150

.00000

.01700

.01730

.00000

-.00560

-.00380

PAGE 381 TASKALATED SOURCE DATA - CA20 DATE OF DEC 75 ORBITER DATA (CGN114) | 28 AUG 75 1 CA20 747/1 01 SI PARAMETRIC DATA REFERENCE DATA ALPHAC = B.000 BETAC -.000 1109.0000 IN.XO XHRP SREF - 2690.0000 SQ.FT. .000 ELV-09 = 3.000 ELV-IB . .0000 IN.YO LREF = 474.8100 IN. YHRP .600 MACH ELEVON -5.080 ZMRP = 375.0000 IN.ZO 935,6900 IN. BREF = BETAO --5.000 PHI .000 SCALE = .0300 10.000 10.000 DY DX GRADIENT INTERVAL - -1.00/ 4.00 3.23 RUN NO. 824/ 0 RN/L = CSL. PHI **ALPHAH** AT38 CY CLN DY BETAD DΧ ALPHAO DΖ MACH .01610 -.00036 9.70270 .02410 .05580 -5.19730 .00000 7.69280 10.38610 14.536 -.449 .59930 .054E0 .01530 -.00600 9.69910 .03900 7.47220 10.37240 -5.19280 .00000 2.724 .59930 14.541 .01550 -.00390 .00000 9.69590 .02350 .05190 10.36200 -5.18910 .59920 6.86669 7.181 14.551 -.00140 .01980 .05000 .01580 -5.18960 .00000 9.68788 5.85320 10.35510 14.577 14.625 .60030 .00130 .01950 .04940 .01680 10.35630 -5.19630 .00800 9.67940 3.69340 14.616 29.549 .59900 .05090 .01740 .00220 .60008 9.67220 .02160 10.36940 -5.20590 .60080 1.72210 14.642 44.653 .00270 .05200 .01790 9.66720 .02289 -.31530 10.37680 -5.21140 .00800 14.647 59.369 .59980 .00000 -.00113 .00344 -.08038 -.00025 .00072 .00016 -.13446 -.00432 .00142 GRADIENT ORBITER DATA (CGH115) ( 20 JAN 75 ) CARO 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 5.000 4.000 BETAC = XHRP - 1109.0000 IN.XO ALPHAC = SREF - 2690.0000 SQ.FT. .030 ELY-08 = 3.000 ELV-18 = .0008 IN.YO 474.8100 IN. **SHILL** LREF = .600 ELEVON = 5.000 HACH 935.6800 IN. ZMRP = 375.0000 IM ZO BREF -BETAO = -5.000 PHI .000 SCALE = .0300 10.000 BY .000 DX RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 832/ 0 CLN CSL PHI **ALPHAH** BETA CY DY BETAO MACH ĐΧ ALPHAD DZ .06160 .01600 -.00960 5.82090 5.05090 -1.58800 -5.24760 .00000 10.60660 10.326 -1.459 .59910 .01700 -.00690 .05830 5.82130 5.04970 10.60930 -1.60360 -5.24580 .00000 1.577 .59950 10.310 -.00530 .00000 5.81960 5.05130 .05480 .01730 -1.62150 -5.24000 .60020 10.30360 10.308 6.169 .01740 -.00350 5.81300 5.04780 .05220 -1.63320 -5.23490 .00000 9.79660 10.316 13.701 .63050 .01760 -.00140 5.00000 5.05230 .05110 .60090 8.77550 -1.63B10 -5.23598 .00000 28.714 10.331 .05080 .01750 -.00100

-1.64140

.00000

7.74110

.00000

.60030

.00000

43.608

GRADIENT

10.344

-5.23430

.00000

5.80240

.00000

.00000

.00000

5.04590

.00000

.00000

.......

DATE 01 DEC 75 (CON115) ( 20 JAN 75 ) DRBITER DATA

			CYS	747/1	01 S1	0	RBITER DATA		(CGHII	51 1 20 0	ו פליא
	REFEREN	CE DATA	•						PARAHETRIC	DATA	
SREF = 2	890.0000 <b>50</b>	.FT. XHRP	• 1109.0	0X.M1 000				ALPHAC =	4.000	SETAC .	5.099
	474.BIGD IN	• • • • • • • • • • • • • • • • • • • •		000 IN.YO				ELV-18 =	.000	ELV-08 .	3.000
	936.6800 IN	•		000 IN.ZO				ELEVON -	5.000	HACH -	.600
ECALE =	.0300							BETAO .	-5.000	PHI ·	.000
CONEL -	.0000							DX -	10.600	DY =	-200
		RUN NO.	633/ 0	RN/L -	3.28 6	RADIENT INTER	VAL = -1.0	10/ 4.00			
ALPHAO	DZ	HACH	ÐΧ	DY	BETAO	PHI	ALPHAH	<b>BETA</b>	CY	CLH	CSL.
14.703	.481	.59990	9.50420	-1.51150	-5.21160	.00000	5.83950	5.03250	.05270	.01820	.00026
14.674	3.583	.59940	9.30230	-1.49580	-5.21110	.00000	5.84040	5.03940	.05780	.01560	.00000
14.669	7.765	.60800	9.02180	-1.51040	-5.21030	.00000	5.84090	5:04940	.05510	.01650	.00100
14.668	15.725	.60050	8.48640	-1.51760	-5.20820	.00000	5.83410	5.04880	.05320	.01570	.00230
14.665	30.510	.59960	7.48080	-1.52620	-5.20760	.00000	5.82210	5.06330	.05230	.01710	.08230
14.670	45.572	.59980	6.45060	-1.52710	-5.20570	.00000	5.81350	5.04380	.05120	.01750	.00220
14.674	60.4 <b>97</b>	.59950	5.42680	-1.53350	-5.20860	.00000	5.80710	5.05660	.05070	.01810	.00280
	GRADIENT	00016	05508	.00505	.00016	.00000	.00029	.00190	.80164	00084	00006
			CAR	747/1	01 SI	0	RBITER DATA		(CONI I	ಕು (20 J	N 79 I
	REFEREN	CE DATA							PARAHETR10	DATA	
		.FT. XHRP	= 1109.0	OX.NI 000				ALPHAC =	9.000	BETAC =	5.000
	690.0000 <b>5</b> 0			1000 IN.XO				ELV-18 -	.000	ELV-CB .	3.000
	474.8100 IN 936.6800 IN	-		1880 IN.ZO	•			ELEVON -	5.000	HACH =	.600
SCALE =	.0380	. Ziau	- 3,3					9ETA0 =	-5.000	PHI =	.000
STALE -	.0350							DX =	10.000	DY =	.000
		RUN NO.	839/ 0	RN/L =	3.25 G	RADIENT INTER	IVAL = -1.0	00/ 4.00			
ALPHA0	D2	MACH	ЭX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
10.294	-2.738	.59960	9.31160	-1.55500	-5.28470	.00000	9.65420	5.05110	.07020	.01950	01480
10.306	.352	.60000	8.90260	-1.59040	-5.27888	.00000	9.65590	5.04940	.06410	.01930	01170
10.320	3.098	.59990	8.53200	-1.61720	-5.25970	.00800	9.65370	5.05780	.06010	.01930	01030
10.367	12.333	.60060	7.27900	-1.64760	-5.24150	.00008	9.65120	5.04550	.05440	.01820	00690
10.428	27.414	.59940	5.21140	~1.66970	-5.23730	.00000	9.64660	5.05340	.05180	.01820	00360
							0.0.040	E 0E3.0	05160	01700	_ ^^^

-5.23650

.00375

.00000

.08000

9.64210

-,00080

5.05310

.00299

.01790

.00000

.05150

-.00146

-.00219

.00051

42.599

GRADIENT

10.473

.60060

-.00004

3.11550

-.13496

-1.66988

-.08976

PAGE 383 TABULATED SOURCE DATA - CARD DATE OF CEC 75 (CGN116) ( 20 JAN 75 ) ORBITER DATA 747/1 01 51 CAED PARAMETRIC DATA REFERENCE DATA 5.000 8.000 BETAC = ALPHAC -1109.0000 IN.XO - 2850.0000 50.FT. EL.V-08 = 3.000 .000 ELV-18 -.0000 IN. 70 ALTO = 979.8100 IN. LREF .600 ELEVON -5.000 HACH 375.8330 IN.ZO Z1:TP • 925.0330 IN. CREF .000 -5.000 PH1 BETAO . .0300 .000 SCALE . DY 10.080 GRADIENT INTERVAL - -1.00/ 4.00 3.26 ຄະນາ ເລ. ເລາ 0 RN/L = CSL CY CLN BETA ALPHAH PHI D٧ **BETAD** Dit FLACH DŽ t\_7:1:0 .01630 -.00656 .07160 9.67820 5.04490 -5.24490 .00000 -1.44650 7.65930 .59830 ~1.199 -.00350 19.509 .01690 .06530 9.67800 5.04450 .00000 -5.23480 -1.48388 7,54570 .5695D 1.591 19.590 -.00110 .08090 .01630 5.04780 .00000 9.67420 -1.51170 -5.22160 6.98990 .695:10 19.553 6.274 .00110 .01716 .05440 9.67180 5.06930 .00800 -1.5528D -5.21120 5.95710 13.725 .59550 15.57 .01740 .00300 9.66840 5.65950 .05190 -5.20860 .00000 3.90000 -1.55200 .59960 28.032 E10.013 .01740 .00340 5.05190 .05100 .00000 9.65590 -1.57120 -5.20720 1.83390 .50040 19.000 43.855 .00340 .05070 .01790 5.06760 .00000 9.64970 -5.20980 -1.57450 -.21630 .60090 14.651 59.746 .00000 .00000 .00000 .00000 .00060 .00000 .00000 .00000 .00000 .00008 CRADIENT (CGN117) ( 20 JAN 75 ) ORBITER DATA 747/1 01 51 CAED PARAHETRIC DATA REFERENCE DATA 5.000 4.000 BETAC = ALPHAC = = 1109.0080 NLXO = 2390.0000 **9**0.FT. X#172 ELV-OB = 3.000 .000 ELV-IB = YEUP .0880 IN.YO 979.8188 IN. LREF • .600 ELEVON -5.000 HACH 375.0000 IN.ZO 21539 # 955.68BC IN. eref • .000 BETAO = -5.000 PHI SCALE = .0300 10.000 .000 DY DX GRADIENT INTERVAL = -1.00/ 4.00 3.29 645/ 0 RN/L = RUN NO CLH CSL CY BETA ALPHAH BETAO FHI ĐΥ MACH ĐΖ ALFHAD .01230 -.01360 .05010 5.84530 5.04420 .00000 -5.21280 9.22240 .60849 .78870 10.493 -.905 -.00980 .01250 5.04B90 .05150 5.84150 .00000 .57730 9.23320 -5.22240 .59930 2.237 10.467 .01420 -.00710 .05010 5.64000 5.65350 -5.23010 .00000 9.22990 .28940 .59928 6.513 10,441 .01530 -.00470 5.82980 5.03800 .04960 .08000 -5.23900 -.23340 9,23800 .60090 14.233 10.439 -.00550 5.03760 .04970 .01680 5.81990 .00000 -1.25309 9.24510 -5.24980 .59990 10.446 29.130 -.00118 .05120 .01720 5.03750 .00000 5.81540 -5.25780 -2.29460 9.25700 .59930 44.219 10.455 .00006 15100. .00845

-.00121

.00000

-.00385

.60344

-.05725

-.00019

GRADIENT

.00156

CA20 747/1 01 SI

ORBITER DATA

(CGH118) ( 20 JAN 75 )

PARAMETRIC DATA

EERFI		

 -	2690.0000 SQ.F 474.8100 IN. 936.6820 IN. 0300	T. XHRP YHRP ZMRP	-	1169.000 .000 375.000	D IN.YO							ALPHAC ELV-18 ELEVON BETAO OX	-	4.000 .008 5.000 -5.000 10.000	BETAC ELV-08 HACH PHI DY	5.000 3.000 .600 .000
		RUN NO.	E	31 <b>7</b> / 0	RN/L =	3	3.20	GRADIENT	INTERVAL	-	-1.6	00/ 4.0	0			

BREF =	936.692C IN.	ZMRP	= 375.0	1800 IN.ZO				FEFARM .	2.000	riach -	.000
SCALE =	.0300							BETAO =	-5,000	PH! •	.009
JUALE -	.0300							0X -	10.000	DY •	10.000
		RUN NO	. BI7/ D	RN/L =	3.28 GRAI	DIENT INTER	WAL = -1.0	10/ 4.00			
ALPHAO	D2	HACH	DX	DY	OAT38	PHI	ALPHAH	BETA	CY	CLN	CST
10.387	-1.428	.60850	10.80950	8.27130	-5.19700	.00000	5.82810	5.09010	.04740	.01500	01500
10.369	1,603	.59990	10.66438	8.27890	-5.20120	.00000	5.83120	5.07890	.04900	.01480	- 01140
10.354	6.192	.59960	10.29750	8.27540	-5.20600	.00000	5.02650	5.09060	.04820	.01510	00850
10.352	13.627	.60080	9.79330	8.28270	-5.21310	.00000	5.92320	5.08370	.04820	.01580	00580
10.350	28.654	.60000	8.75340	0.29080	-5.22320	.00000	5.81190	5.08340	.84890	.01580	00300
10.375	43.802	.59950	7.72900	8.28570	-6.22260	.00888	5.80650	5.08390	.04980	.01720	00160
10.3.3	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00800	.00000	.00000
		RUN NO	. 022/ 0	RN/L =	3.25 GRAI	DIENT INTER	WAL = -1.0	10/ 4.00			
ALPHAO	DZ	HACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLH	CSL
14.717	1.874	.59970	9.42800	8.37420	-5.17810	.00000	5.85110	5.08930	.04410	.01820	00719
14.688	4.769	59960	9.22800	8.37710	-5.17940	.00000	5.85198	5.09400	.04560	.01700	00418
14.674	9.382	.59990	8.91570	8.39120	-5.18320	.00800	5.84940	5.09720	.04680	.01630	00170
14.665	16.975	.69990	8.40160	8.38660	-5.18790	.00000	5.83980	5.08990	.04690	.01670	.00020
14.66B	31.950	.59900	7.37290	8.39530	-5.19670	.00000	5.83260	5.69040	.04800	.0173B	.00220
-	46.749	.60020	6.36980	8.40610	-5.20180	.00000	5.81470	5.09240	.04920	.01760	.00240
14.673	61.783	.60020	5.33720	8.41540	-5.28920	.00000	5.80510	5.09390	.05110	.01790	.00230
14.668		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
	GRADIENT	. 00000	. 00000	. 00000	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						

DATE DI DEC 75

TABLEATED SOURCE DATA - CA20

PAGE 385 (CGN119) 1 20 JUN 75 1 CA20 747/1 OL SI ORBITER DATA PARAMETRIC DATA REFERENCE DATA ALPHAC = 8.800 BETAC -5.000 XHRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. ELV-08 = 3.000 ELV-18 = .800 LREF . 474.8100 IN. YHEP = .6000 IN.YO ELEVON = 5.000 MACH .500 936.6900 IN. ZMRP = 375.0000 IN.ZO EREF = .000 BETAD --5.000 PHI SCALE = . 0330 DY 16.000 DΧ 10.000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 826/ 0 RN/L = 3.24 CSL DY BETAO PHI ALPHAH BETA CY CLN DX ALPHA0 ĐΖ MACH -.02380 -5.17890 .00000 9.67640 5.11290 .04830 .01290 -3.159 .59960 9 45520 6.21690 10.232 9.67420 5.10090 .05220 .01300 -.01920.00000 -.178 .59930 9.04460 8.24760 -5.19470 10.221 -.01560 0.25130 -5.20440 .00000 9.67370 5.10550 .05250 .01380 .60060 8,43950 4.274 10.228 -.01280 .01460 8.24320 -5.21030 .00000 9.67500 5.10510 .05160 B.00330 10.086 8.076 .60080 .00000 9.67450 5.09750 .05120 .01490 -.01150 .60030 7.61260 0.24420 -5.21170 10.098 10.921 -.00570 .00000 9.66690 5.09520 .05900 .01640 5.50150 8.24330 -5.22100 26.257 .59990 10.159 -.00430 .85890 .01700 -5.22860 .00000 9.65440 5.09690 3.31110 8.25650 10.305 41.630 .59980 .00000 .00000 .00000 .00800 .00000 .00880 .00000 .00800 GRADIENT .00000 .00080 GRADIENT INTERVAL = -1.00/ 4.00 3.22 RUN NO. 825/ 0 RN/L = **ALPHAH** BETA CY CLN CSL BETAO PHI DY ΟZ HACH ĐX **ALPHAO** 5.10990 .05730 .01420 -.01690 .00000 9.69920 8.38630 -5.17870 - .647 .59910 7.99380 14.526 -.01240 5.09010 .05590 .01410 7.50930 8.39730 -5.18080 .00000 9.69640 2.288 .59900 14.574 -.00800 5.10230 .65430 .01450 0.37630 -5.18510 .00000 9.69580 .69040 6.82610 6.696 14.572 -.00360 .01510 .00000 9.69090 5.10280 .05160 8.36390 -5.18580 14.599 14.523 .59960 5.84870 5.09570 .04910 .01580 .00840 8.35910 -5.19440 .00000 9.69160 29.445 .59990 3.80460 14,622 5.10310 .04990 .01730 .00170 9.67480 9.36188 -5.20120 .00000 44.416 .59990 1.74040 14.641 .00250 .05120 .01780 9.66940 5.10360 59.262 .60020 -.31430 8.37110 -5.20880 .00000 14.651 -.80675 -.08048 -.00003 .00153

.00034

-.00003

**GRADIENT** 

-.13436

-.00072

-.00095

DATE OF DEC 75 TROUGHED SOME DATA ONCE

ORBITER DATA

-.00238

.00000

.00035

.00055

-.00064

-.03013

(CGN120) ( 20 JAN 75 )

CA20 747/1 01 51

GRADIENT

.00008

-.06713

.00084

	REFERENC	E DATA							PARAMETRIC	DATA	
SREF - c	'690.000B SQ.	FT. XMRP	= 1109.0	0000 IN.XO				ALPHAC *	4.000	BETAC =	~5.000
LREF -	474.8109 IN.			OY.NI BCCC				ELV-18 *	.000	ELV-OB =	.000
	936.6800 IN.	•		0000 IN.20				ELEVON =	5.000	HACH =	.600
SCALE =	.0300							BETAD =	-5.000	PHI =	.000
								DX =	.000	DY =	10.889
		RUN NO	. 765/ 0	RN/L =	3.26 GRA	DIENT INTER	RVAL = -1.0	00/ 4.00			
ALPHAO	ĐΖ	MACH	DХ	DY	BETAG	PHI	ALPHAR	BETA	CY	CLN	CSL
10.515	-1.996	.60080	.84350	11.45910	-5.24180	.00000	5.87139	-4.98t10	.04510	.01739	08820
10.489	1.101	.59950	.64030	11.44630	-5.23360	.00800	5.65780	-4.98920	.04350	.01690	08910
10.987	5.844	.60040	. 31530	11.45310	-5.23550	.00000	5.86370	-4.98810	.04420	.01680	00030
10.491	13.003	.59970	17740	11.46190	-5.23990	.00000	5.85710	-4.98220	.04580	.01680	00040
16.595	28.256	.60020	-1.23080	11.48620	-5.25290	.00000	5.64900	<del>-4</del> .99070	.04860	.01740	.00010
10.512	43.653	.60090	-2.24980	11.50370	-5.26170	.00000	5.03960	-4.99000	.05850	.01759	.00040
10.515	46.935	.59980	-2.51800	11.50600	-5.26380	.60000	5.83580	-4.98180	.05160	.01760	.00030
	GRADIENT	.00000	.00000	.00000	.00000	.00808	.60000	.00000	.08000	.00000	.00000
		RUN NO	. 768/ 0	RN/L *	3.24 GRA	DIENT INTER	VAL1.0	10/ 4.00			
ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.817	.070	.66020	31490	11.36860	-5.21580	.00000	5.90170	-4.98100	.04230	.01930	.00270
14.790	3.179	.60040	52360	11.37128	-5.20890	.08288	5.89430	-4.97990	.04400	.01730	.00230
14.781	7.513	.60088	62800	11.38439	-5.21010	.00000	5.89240	-4.98B70	.04640	.01640	.00130
14.780	9.056	.60090	93650	11.39410	-5.21080	.00088	5.89280	-4.98120	.04660	.01540	.00110
14.776	15.044	.59340	-1.35410	11.39230	-5.21500	.00000	5.89410	-4.98340	.04790	.01670	.00070
14.778	30.013	.59960	-2.39169	11.42088	-5.22890	.00000	5.86850	-4.99850	.05160	.01730	00010
14.777	14.777 44.971 .60010 -3.42780 11.4336				-5.23760	.00000	5.85800	-4.98540	.05320	.01790	.00000
14.777	60.036	.60079	-4.47510	11.45160	-5.24820	.08800	5.85010	-4.98230	.05540	.01840	.00030

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

			CA20	747/1	01 51	0	ATAG REFIER		(CGN15	(1) (50 m	N 75 1
	REFERENCE	DATA	•						PARAHETRIC	DATA	
LREF .	690.0000 SQ.FT 474.8100 IN. 936.6800 IN. .0300	r. XMRP YMRP ZMRP	₽, 0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-18 = ELEVON = EETAO = DX =	8.000 .000 5.000 -5.000 .000	BETAC = ELV-08 = HACH = PHI = DY =	-5.000 .000 .600 .000
		RUN NO	. 768/ 0	RN/L ■	3.25 GR	ADIENT INTER	RVAL1.0	9/ 4.00			
ALPHAO 10.298 10.312 10.352 10.388 10.447 10.474	0Z -3.648 557 4.042 11.593 26.756 41.500 46.724 GRADIENT	MACH .60030 .6080 .60030 .60030 .59940 .60020 .59970	DX5903099740 -1.63380 -2.66550 -4.78130 -6.83220 -7.56360	DY 11.55550 11.51670 11.50050 11.52080 11.52080 11.53920 11.54730 .00000	BETAO -5.26430 -5.24420 -5.23340 -5.24770 -5.2520 -5.26270 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 9.75040 9.74600 9.74400 9.73990 9.73480 9.72930 9.72760 .00000	BETA -4.98270 -4.98980 -4.98900 -4.99020 -4.99150 -4.97300 -4.93040 .00000	CY .05570 .04970 .04720 .0460 .04910 .05120 .05220 .00000	CLN .01670 .01650 .01600 .01610 .01700 .01730 .01750	CSL 00668 00670 00670 00570 00340 00190 00170
		RUN NO	, 767/ 0	RN/L =	3.24 CR	ADIENT INTER	RYAL = -1.0	30/ 4.00			
ALPHAO 14.680 14.680 14.688 14.707 14.735 14.751	02 -1.558 1.597 5.926 13.492 28.283 43.438 58.184 GRADIENT	MACH .60050 .60010 .59990 .60040 .59950 .59960 .60040	DX -1.92420 -2.35280 -2.94660 -3.98700 -6.03700 -8.14790 -10.20510	8Y 11.43940 11.42690 11.41730 11.41840 11.44460 11.46360 11.46640 ,00000	BETAO -5.22370 -5.20980 -5.20470 -5.20750 -5.22150 -5.23100 -5.24360 .00800	PHI .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 9.78050 9.77830 9.77290 9.75940 9.74920 9.74110 9.73190	BETA -4.97870 -4.98750 -4.98580 -4.98580 -4.98370 -4.98370 -4.98390	CY .04970 .04860 .04700 .04670 .04990 .05230 .05470 .00900	CLN .01780 .01570 .01550 .01600 .01660 .01710 .01790	CSL 00110 00050 .00000 .00050 .00140 .00080 .00070

14.775

14.771

45.089

60.069

GRADIENT

.60028

.00010

.60000 -3.41890 10.45180 -5.23340

-.07072

-4.45590 10.47380 -5.24560

.00710

.01730 -.00210

-.00230

.01790

.00173 -.00114 -.00014

			CAZO	747/1	01 \$1	o	RB!TER DATA		(CON12	5) (50 T)	UI 75 1
	REFERENCE	E DATA							PARAMETRIC	DATA	
SREF = 2	2690.0000 <b>50.</b> f	FT. XNRP	- 1109.0	080 IN.XO				ALPHAC =	4.000	BETAC =	.000
LREF =	474.8100 IN.	YMRP	<b>-</b> .0	OY.N1 888				ELV-IB =	.000	ELV-08 =	.000
BREF =	936.6800 IN.	ZHRP	= 375.0	000 IN.ZO				ELEVON *	5.000	HACH =	.600
SCALE =	.0300							BETAD -	-5.000	PHI .	.000
								DX -	.080	DY •	10.000
		RUN NO	. 761/ 0	RN/L =	3.32 GR	ADIENT INTER	WAL1.0	0/ 4.00			
ALPHAO	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.533	-1.760	.60020	.83720	10.39810	-5.23790	.00000	5.87650	00910	.64720	.01650	00520
10.518	1.242	.60000	.63340	10.40180	-5.23590	.00000	5.87280	01120	.64840	.01530	00400
10.511	5.718	.60020	.32860	10.40050	-5.23670	.00000	5.86530	+.01469	.04790	.01560	00320
10.517	13.048	.59950	17620	10.40330	-5.24020	.00000	5.65710	01870	.04810	.01600	00220
10.529	28.455	.60000	-1.23960	10.41620	-5.25120	.00000	5.84810	01200	.04950	.01680	08870
10.535	43.071	.60080	-2.24620	10.43250	-5.26010	.00000	5.84030	01840	.05120	.01720	~.00020
10.533	47.085	.69070	-2.52230	10.43510	-5.26270	.00000	5.83630	01030	.05180	.01730	00010
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00800	.00000	.00000	.00000	.00000
		RUN NO	. 764/ 0	RN/L =	3.26 GR	ADIENT INTER	WAL1.0	0/ 4.00			
ALPHA0	DZ	MACH	ОX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLH	CST
14.817	. 178	.60040	~.29330	10.38910	-5.21580	.00000	5.90850	00220	.04250	.01970	.00070
14.797	3.067	.60070	49760	10.40960	-5.21220	.00000	5.90420	01100	.04750	.01640	.00030
14.787	7.581	.59930	81639	10.41730	-5.21290	.00200	5.89670	01520	.04930	.01580	.00000
14.780	15.133	.59990	-1.34110	10.42580	-5.21580	.00000	5.68860	01750	.05070	.01590	00180
14.773	29.995	.65930	-2.37300	10.44100	-5.22670	.00000	5.86560	01600	.05270	.01780	~.00230

.09808

.00000

.00800

.00125

5.85390

5.84420

-.00149

-.01269

-.01110

-.00305

.05390

DATE OF DEC 75

TABLEATED SOURCE DATA - CARD

(CGN123) { 20 JAN 75 } ORBITER DATA CA20 797/1 01 51 PARAMETRIC DATA REFERENCE DATA 8.000 BETAC -.000 ALPHAC -XMRP - 1109.0000 IN.XO SREF - 2690.0000 SQ.FT. .000 ELY-08 . .000 ELV-IB = YMRP = .0000 IN.YO 474.8100 IN. .600 HACH ELEVON -5.000 375.0000 IN.ZO ZNRP = 936.6800 IN. BREF \* BETAO . -5.000 PHI .000 .0300 SCALE = 10.000 DX .000 DY GRADIENT INTERVAL = -1.00/ 4.08 RUN NO. 762/ 0 RN/L = 3.28 CSL ALPHAH BETA CLN **GETAD** PHI DY DΧ ALPHAO DZ MACH .05930 .01380 -.01478 9.74490 -.00690 10.45990 -5.25020 .08000 ,68010 -,58610 -3.606 10.341 -.01210 -.01040 .05610 .01460 9.74890 -1.02000 19.44290 -5.24670 .00000 -.403 .59930 10.346 -.00940 .05170 .01520 -5.23990 .00000 9.74280 -.01460 10.41910 -1.03100 .60010 10.375 5.542 .05010 .01560 -.00750 .00800 9.73990 -.01770 -5.23870 10.41120 .60010 -2.65140 11.472 10.411 -.00400 .01660 9.73260 -.00880 .04930 .00000 -4.75748 10.41420 -5.24700 .59920 10.469 26.651 -.00220 -.00810 .65140 .01710 9.72730 -5.25710 .00000 -6.03220 10.42860 .59930 10.496 41.661 .05150 .01720 -.00170 -.00790 .06080 9.72580 -5.25900 .60020 -7.56930 10.43080 46.645 10.503 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 753/ 0 RN/L . 3.28 ĆSL CLH BETA CY **ALPHAH** DY BETAO PHI ĐΧ HACH **ALPHAG** DZ -.00790 .01660 9.77730 -.00570 .05610 -5.22780 .00000 10.45980 .60080 -1.91500 14.689 -1.516 .05440 .01500 -.00420 -.01230 .00000 9.77300 -5.21870 2.914 .60020 -2.51930 10.44440 14.691 -.00230 .05210 .01599 -.00730 10.42920 -5.21400 .08000 9.76670 7.467 .59960 -3.14690 14.699 -.00050 -.01988 .04960 .01580 .00000 9.75730 -5.21290 -3.99010 10.41880 13.631 .59930 14.711 .00140 .05000 .01660 -.02910 9.74450 -6.03760 10.42940 -5.22190 .00000 .59990 14.742 28.443 .00030 .05250 .01689 9.73780 -.01788 -5.22970 .00000 10.44480 43.346 .60010 -8.11400 14.754 .01740 -.00170 -.00890 .05610 9.72950 .00000 -10.20620 10.46770 -5.24130 .60020 14.753 58.323 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT .00000

ORBITER DATA

(CGN124) ( 20 JAN 75 )

PARAMETRIC DATA

DC	cc	OC:	ACE.	n:	TA.

							141 VA					ALPHAC	-	4.000	BETAC	•	5.000
SREF	=	2690.0000	SQ.FT.			• • • • • • • • •					i	ELV-18	=	.000	ELV-06	} =	.000
LREF	=	474.8100	IN.	YMRP			IN.YO					ELEVON		5.000	MACH	-	.600
BREF	•	936.6800	IN.	ZHRP	=	375.0808	IN.ZO					BETAG	-	-5.000	PHI	-	.000
SCALE		.0380										DX	•	.000	ĐΥ	-	10.000
									-								
					_			- ~.	COADIENT	INTERVAL =	-1.60	/ 4.8	0				

BREF = SCALE =	936.6800 IN. .0300	ZHRP	- 375.0	808 IN.20				BETAG =		개1 = 가 =	.000 10-000
		RUN NO.	769/ 0	RN/L =	3.24 GRAD	DIENT INTER	VAL = -1.6	0/ 4.80			
ALPHAO 10.551 10.533 10.511 10.556 10.514 10.514	DZ -1.968 1.261 5.843 13.217 28.279 42.986 46.942 GRADIENT	MACH .60050 .60040 .60050 .60020 .59950 .59930 .59930 .00000	0x .84330 .62320 .31090 19490 -1.23590 -2.25500 -2.62750 .00000	OY 9.22610 9.23700 9.24170 9.24420 9.25270 9.26120 9.26350 .00000	BETAO -5.20960 -5.21850 -5.22710 -5.23460 -5.24690 -5.25400 -0.0000	PHI .60800 .00800 .00800 .00800 .00800 .00800 .00800	ALPHAH 5.87540 5.87370 5.87190 5.85400 5.85360 5.85360 5.84920 6.00000	BETA 5.00580 5.00280 4.95430 4.95420 4.95140 4.95910 4.95920 .00000	.04890 .05800 .04890 .04890 .04890 .05020 .05040	CLN .01220 .01240 .01400 .01510 .01550 .01710 .01710	CS. 01278 00910 00640 00400 00160 00060 00000
ALPHA0 14.954 14.915 14.863 14.877 14.867 14.860	DZ .809 4.128 10.592 19.691 33.530 48.582 63.797 GRADIENT	MACH .6000D .5992D .6008D .6005D .6004D .6001D .59940	0x 36940 59930 -1.07290 -1.60570 -2.63000 -3.67260 -4.73190 .00000	9.30510 9.32970 9.34180 9.35210 9.35710 9.37470 9.39310	BETAO -5.19510 -5.20000 -5.20770 -5.21430 -5.22520 -5.23120 -5.24340	PHI .00800 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.90150 5.89450 5.89800 5.87640 5.85860 5.84820 5.84160	8ETA 4.99800 4.99270 4.99580 4.99090 4.98910 4.99940 6.00000	CY .04170 .04660 .04840 .04930 .05100 .05180 .05440 .00000	CLN .01830 .01580 .01560 .01620 .01710 .01770 .01840	CSL 00530 0024B 00080 00060 .00000 .00010 .00040

14.842

14.847

59.029

GRADIENT

PAGE 391 TABULATED SOURCE DATA - CARD DATE 01 DEC 75 ( 20 JAH 75 ) (CGN125) ORBITER DATA CA20 747/1 01 St PARAMETRIC DATA REFERENCE DATA 5.000 ALPHAC = 8.000 BETAC -XHRP = 1109.0000 IN.XO 2890.0000 SQ.FT. .000 ELV-08 -.000 ELV-18 -YHRP .0000 IN.YO 474.8100 IN. LREF .600 HACH ELEVON -5.000 375.0000 IN.ZO ZMRP 936.6800 IN. EREF = .000 BETAO = -5.000 PHI .0300 SCALE = DY 10.000 .000 ĐΧ GRADIENT INTERVAL = -1.00/ 4.00 3.23 RUN NO. 770/ 0 RN/L = CLN CSL CY **BETAO** PHI ALPHAR AT3B ĐY DX MACH ALPHAO ĐZ .01010 -.02230 9.73970 5.00480 .05050 -5.19210 .00000 9.18540 .59990 -.59100 -3.483 10.389 -.01740 .05240 .01160 9.73710 5.80040 .00000 -1.01940 9.20850 -5.21240 .60040 -.364 10.364 .01310 -.01340 .00000 9.73610 5.00530 .05150 9.20920 -5.22250 -1.62970 4.646 .59980 10.376 .05848 .01440 -.00930 9.73290 4.98650 .00000 -5.23110 .59980 -2.68850 9,21350 10.412 11.707 .01610 -.00490 4.99510 .04950 9.72830 9.21380 -5.24260 .00000 -4.73520 26.499 .59960 10.454 .05040 .01690 -.00260 9.72080 4.59590 .00000 9.22210 -5.25140 -6.81820 41.497 .59910 10.479 .05970 .01700 -.00210 5.00359 9.71940 -5.25460 .00000 .59950 -7.55090 9.22410 10.486 46.759 .00000 .00000 .00800 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 771/ 0 RN/L = 3,23 CSL CLN ALPHAH BETA CY PHI BETAO DX DY DZ HACH **ALPHAO** -.01610 .05570 .01360 9.76760 5.01150 .00000 -2.03280 9.33230 -5.19580 .59960 - 884 14.823 .01300 +.01120 4.99910 .85690 -5.20380 .00000 9.76340 .60050 -2.41590 9.34470 1.955 14.797 -.80650 .05438 .01390 .00000 9.75880 4.59440 -3.02280 9.33420 -5.20750 .59990 14.791 6.399 -.00240 .01500 9.74920 5.00170 .05100 -4.07028 9.31890 -5.21020 .00000 14.059 .60070 14.798 .00070 4.99380 .04950 .01650 9.74410 -5.21810 .00000 9.31700 .59990 -6.12930 14.819 28.947 .05100 .01690 .00120 .00000 9.73320 5.00170 -8.16550 9.32610 -5.22580 .60020 43.761

9.34040

.00437

-10.31650

-.13493

.59990

.00032

-5.23500

-.00282

.00000

.00000

9.72670

-.00148

.00090

.00173

5.00260

-.00472

.05290

.00042

.01760

-.80021

CA20 747/1 02 S1

ORBITER DATA

(CGN125) ( 29 AUG 75 )

C	-	c	•	D	c	N	•	Ε	n	٠	T	2	

### PARAMETRIC DATA

SREF LREF BREF SCALE	=	2690.0000 9 474.8100 936.6800 .0300	IN.	XHRP YHRP ZHRP	-	1109.0000 .0000 375.0000	IN.YO	ALPHAC ELV-18 ELEVON BETAO	•	.000 5.000 .000	BETAC ELV-08 HACH PHI	-5.000 3.000 000.
SCALE	•	.0300						DX	•	.000	DY	.000

# RUN NO. 656/ C RN/L = 3 29 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAD	DZ	MACH	ĐΧ	DY	BETAO	PH1	ALPHAH	SETA	CY	CLN	CSL.
10.466	-1.696	.60040	10.78960	1.93190	.02640	.00000	5.87110	-4.99100	01000	00060	.02500
10.459	2.127	.59928	10.56940	1.94420	.01790	.00000	5.87110	-4.97980	00770	.00020	.00240
10.459	6.620	.60000	10.26250	1.95080	.01050	.08888	5.26390	-4.98600	00560	.00070	.0011 <b>0</b>
10.464	14.115	.59980	9.74740	1.97410	.00250	.00000	5.85590	-4.97810	00300	.00110	00010
10.475	29.115	.59940	8.71410	1.99380	00590	.00000	5.84530	-4.98080	.00230	.00110	00120
10.481	44.160	.59950	7.67070	2.00190	00610	.60800	5.84030	-4.98900	.00130	.00080	00200
10.485	48.280	.59920	7.39520	5.00160	00510	.00000	5.83410	<b>-4.98750</b>	.00130	.00080	00200
	GRADIENT	.00088	.08000	.00000	.00800	.00800	.02020	.00000	.00000	.00000	.00000

CARD 747/1 02 S1 ORBITER DATA (CGN127) ( 20 JAN 75 )

# REFERENCE DATA

# PARAMETRIC DATA

SREF	-	2690.0000 SQ.FT.	XHRP	•	1109.0000	IN.XO	ALPHAC	•	4.	.000	BETAC	-	-5.000
LREF	=	474.8100 IN.	YHRP		.0000	IN.YO	ELV-18	•		.000	ELV-08	•	3.000
EREF		936.6800 IN.	ZMRP	-	375.0880	IN.ZO	ELEVON		5.	.000	HACH	-	.600
SCALE	=	.0300					BETAO			.020	PH1	=	.000
		33233					אם		10	.000	DY		.000

# RUN NO. 657/ 0 RN/L \* 3.34 GRADIENT INTERVAL \* -1.00/ 4.00

ALPHAO	DZ	HACH	ĐΧ	ĐY	DETAD	PHI	ALPHAH	BETA	CY	CLH	CSL
10.433	-1.292	.59920	10.78030	1.92340	.02590	.00000	5.86290	-4.96760	08930	00110	.00550
10.431	1.807	.59920	10.57160	1.93720	.01910	.00000	5.86170	-4.96380	00730	00030	.00310
10.433	6.229	.60900	10.27180	1.94970	.01210	.00000	5.85780	-4.95280	00550	.00030	.00150
10.444	14.070	.60000	9.73470	1.96260	.00440	.00000	5.85180	-4.95390	00300	.00070	.88988
10.465	28.827	.59930	9.71920	1.97990	00328	.00000	5.84330	-4.95700	00020	.00090	80120
10.477	43.949	,59940	7.67520	1.99260	08450	.00000	5.83720	-4.97220	.00110	.00000	00200
10.478	48.212	.55390	7.39180	1.99160	00550	.00000	<b>5.</b> 83600	-4.96410	.00140	.00070	00220
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-00000

DATE DI DEC 75

GRADIENT

-.08019

-.06887

TABULATED SOURCE DATA - CA20

CA20 747/1 02 51 ORBITER DATA (CON129) ( 20 JAH 75 ) PARAMETRIC DATA REFERENCE DATA XMRP = 1109.0000 IN.XO ALPHAC = 4.000 BETAC = -5.000 SREF = 2690.0000 SQ.FT. ELV-IB = .000 ELV-08 = 3.000 LREF 474.8100 IN. YHRP .0000 IN.YO ELEVON = 5.000 HACH .603 BREF = 938.6880 IN. ZMRP = 375.0000 IN.ZO . BETAC -.000 PHI .000 SCALE . .0300 DX = 20.000 DY .000 RUN NO. 669/ 0 RN/L . 3.32 GRADIENT INTERVAL = -1.00/ 4.00 МАСЧ DΧ DY BETAO PHI ALPHAH BETA CY CLN CSL DZ **ALPHAO** 20.78390 .02290 .00000 5.84610 -4.97728 -.00980 -.00100 .00710 2.80120 10.338 -1.708 ... 150 5.64520 -4.96530 -.007B0 -.00020 .00430 2.80850 .01620 .00000 10.333 1.490 .59930 20.57030 10.348 5.895 .59930 20.26620 2.82240 .00870 .00000 5.84260 -4.96288 -.00510 .00030 .00240 5.03790 -.00270 .60070 .00078 10.350 13.450 .59940 19,75050 2.84000 .00250 .00000 -4.97010 18.72420 2.84590 -.06400 .00000 5.83120 -4.95760 .00000 .00090 -.00070 10.383 28,424 .60060 2.86070 -.08470 .00000 5.82390 -4.97340 .00110 .00070 -.00160 10.396 43.434 .59980 17.69220 17.35740 2.86070 -.00700 .00000 5.82450 -4.96530 .00198 .00090 -.00198 .60010 10.401 48.251 .00000 .00800 .00000 .00000 .00000 .00000 .08000 .00000 .00000 GRADIENT .00000 ORBITER DATA 747/1 02 51 (CCM158) 1 SO JAN 75 1 CA20 PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = 200. XHRP 1109.0000 IN.XO 2690.0000 SQ.FT. YMRP .0000 IN.YO ELV-IB -.000 ELV-08 + 3.000 LREE -474.8100 IN. HACH 375,0000 IN.ZO ELEVON = 5.000 -.600 BREF = 936.6800 IN. ZHRP PHI BETAO = .000 .000 SCALE = .0300 DX .000 GY CDQ. GRADIENT INTERVAL - -1.00/ 4.00 RUN NO. 652/ 0 RN/L = 3.31 CSL HACH ÛΧ DY BETAO PHI ALPHAH BETA CY CLK **ALPHAO** DZ 5.07480 .64740 -.00190 .00070 -.00372 -.01920 .00560 .00000 18.500 -.437 .60030 .77380 .05460 -.00170 -.00330 5.87310 .00070 2.659 .59970 .56060 -.01970 .00480 .88000 10.491 -.00300 .60830 .25130 -.01390 .00350 .00000 5.86650 .03860 -.00140 .00070 10.491 7.176 .00000 5.85330 .05350 -.00130 .00070 -.00270 -. 210 -.01610 .00270 10.496 14.694 .59940 -.00240 -.00010 .00080 10.509 26.859 .59930 -1.10100 -.00610 -.00180 .00000 5.64700 .04480 -.00180 -.00280 .00000 5.84330 .03710 .00030 .CODED -.00240 .59940 -1.28250 10.510 29.527 5.83550 .04500 .08090 .00000 -.00270 -.00350 .00000 44.750 .59910 -2.33450 -.00040 10.521 -.00270 .60070 -2.56460 .00190 -.00470 .00000 5.83420 .04510 .00120 .00070 48.090 10.524 -.00026 .00800 -.00055 .00233 .00006 .00000 .00013

-.00016

GRADIENT

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00000

.00000

Reference Data				CY50	747/1	02 SI	1	ORBITER DAT	A	(CGN1		Ut 75 )
REF = 974-0100 IN. YHRP = 3.000 IN.YO SCALE = .0300 IN. ZHRP = 375.0000 IN.ZO  RUN NO. 6537 D RN/L = 3.29 GRADIENT INTERVAL = -1.007 9.000  ALPHAO DZ MACH DX DY BETAO PHI A.0010 T.9000 .0313000120 .00120 .00120 11-783 9.200 .5990059900005700057000130 .00000 5.99740 .04590 .0513000120 .00120 11-783 11-514 .59900 -1.1-11-300057000130 .00000 5.97900 .05140 .00250 .0011000220 11-733 11-514 .59900 -1.1-11-300057000310 .00000 5.97900 .05140 .0005000250 .0011000220 11-738 11-514 .59900 -1.1-11-300035000310 .00000 5.97900 .05140 .0005000250 .00110 .00000 11-738 11-514 .59900 -1.1-11-300035000350 .00000 5.97900 .005900 .00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000		REFERENC	E DATA							PARAHETRIC	DATA .	
SCALE = .0390  RUN NO. 6537 0 RN/L = .3.29 GRADIENT INTERVAL = -1.007 4.00  ALPHAO DZ MACH DX DY BETAO PHI ALPHAN BETA CY CLN CSL 14.750 1.601 .60030375900083000100 .5.0000 5.00700 .001300012000210 14.750 4.601 .60030601900073000160 .00000 5.00700 .00500 .0011000220 14.743 9.200 .59900909700057000130 .00000 5.09790 .00590 .0011000220 14.739 16.514 .59500 -1.414300035000310 .00000 5.09790 .05400 .00250 .0010000220 14.739 16.514 .59500 -1.414300035000310 .00000 5.09790 .05400 .00050 .00000 14.739 16.514 .59900 -3.49040 .0140000920 .00000 5.09790 .00940 .00310 .00070 .00220 14.739 16.515 .59900 -3.49040 .0140000920 .00000 5.09790 .00400 .00310 .00070 .00220 14.739 16.515 .59900 -3.49040 .0140000920 .00000 5.09790 .00400 .00310 .00070 .00220 14.739 17.741 46.575 .59900 -4.58010 .00400 .00000 5.00000 5.00000 5.00000 .00000 19.730 .00000 19.730 .00000 19.730 .00000 0.00000 5.00000 .00000 .00000 19.730 .00000 19.730 .00000 0.00000 5.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000												
RUN NO. 653/ 0 RN/L = . 3.29 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ MACH DX DY BETAO PHI ALPHAN BETA CY CLN CSL 14.760 1.601 .6003037690008200010 .50000 5.90450 .03130001200012000218 14.750 1.601 .60030376900082000110 .50000 5.90450 .0313000120 .0012000218 14.739 .4.601 .60030376900087000870 .00000 5.89740 .0480000550 .0011000220 14.739 .9.200 .69960909700087000130 .00000 5.89740 .04800 .00350 .0010000220 14.739 .9.200 .69960909700087000130 .00000 5.89780 .04800 .00350 .00900 .00230 14.739 .9.200 .699609097000870 .00800 .00800 5.8980 .03740 .00240 .0026000230 14.739 .9.200 .99910 -2.45160 .0110000700 .00800 5.8990 .03740 .00240 .0026000230 14.739 .9.16.514 .65980 -1.41430 .0140000700 .00800 5.8990 .03740 .00240 .0026000270 14.739 .9.16.515 .59980 -3.49800 .01400 .00800 5.8990 .00800 5.8990 .00300 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00800 .00	BREF =	936.6880 IN.	ZMRP	= 375.0	000 IN.ZO				ELEVON -	5.000	HACH =	.600
RUN NO. 6537 0 RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ HACH DX DY BETAO PHI ALPHAN BETA CY CLN CSL 14.760 1.601 .60030375900082000010 .50000 5.60450 .0313000120 .0012000218 14.750 4.801 .60030601900073000160 .00000 5.89740 .0459000030 .0011000220 14.743 9.200 .599600997000570 .00130 .00000 5.89170 .0459000230 .0011000220 14.743 16.514 .65500 -1.414300035000310 .00000 5.69750 .05400 .00550 .0010000220 14.743 16.514 .65500 -1.414300035000310 .00000 5.67580 .05400 .00550 .0009000230 14.739 31.558 .59910 -2.45150 .0110000700 .00000 5.67580 .05400 .00550 .0009000230 14.739 61.557 .55980 -3.49040 .01140000520 .00000 5.67580 .05400 .00310 .00070 .00260 14.741 46.575 .55980 -3.49040 .0140000520 .00000 5.67580 .05400 .00310 .00070 .00260 14.736 61.537 .59920 -4.56810 .0233001480 .00000 5.64020 .04480 .00310 .00070 .00260 GRADIENT .00000 .00000 .00000 .00000 5.64020 .04480 .00000 .00000 .00000 GRADIENT .00000 .00000 IN.YO .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000  SEETA - 474.8100 IN. YMPP0000 IN.YO .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	SCALE =	.0300								.000	PHI #	.000
ALPHAD DZ HACH DX DY BETAD PHI ALPHAH BETA CY CLN CSL 14.760 1.601 .60030375900082000010 .50000 5.90450 .0313000120 .0012000218 14.760 1.601 .60030375900083000110 .50000 5.90450 .0313000120 .0012000218 14.761 4.801 .60030601900073000160 .00000 5.89740 .0489000050 .0011000220 14.773 9.200 .59960909700055000110 .00000 5.89740 .0489000050 .0011000220 14.738 18.514 .59950 -1.414300035000310 .00000 5.89580 .05400 .00550 .0005000230 14.739 31.558 .599910 -2.45150 .0110000700 .00000 5.89580 .05400 .00560 .0056000270 14.739 31.558 .599910 -2.45150 .0110000920 .00000 5.89580 .03740 .00240 .0006000270 14.739 31.558 .59990 -3.49900 .0140000920 .00000 5.89580 .03740 .00240 .0006000270 14.735 61.537 .59920 -4.52810 .0238001480 .08000 5.89420 .04480 .00310 .0007000280 14.738 61.537 .59920 -4.52810 .0238001480 .08000 5.89420 .04460 .00430 .0010000290 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000									DX =	.000	DY =	.000
14.760			RUN NO	. 653/ D	RN/L = .	3.29 GRA	DIENT INTE	RVAL = -1.0	30/ 4.88			
14.750	ALPHAO	DZ	MACH	DX	DY	BETAO	1H <sup>q</sup>	<b>ALPHAN</b>	BETA	CY	CLN	CSL
14.743				37590	08830	00010	. 60000	5.90450	.03130	00120	.05180	00210
14.738									.04580	00050	-00110	00220
14.739											.00103	
14.741												
14.735												
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000												
REFERENCE DATA  REFERENCE DATA  REFERENCE DATA  SREF = 2690.0000 S0.FT. XHRP = 1109.0000 IN.X0  LREF = 474.8100 IN. YHRP = .0000 IN.Y0  BREF = 936.6800 IN. ZHRP = 375.0000 IN.Z0  SCALE = .0300  RUN NO. 661/ 0 RN/L = 3.30 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAD	14.736											
REFERENCE DATA  SREF = 2690.0000 S0.FT. XHRP = 1109.0000 IN.X0  LREF = 477.0100 IN. YHRP = .0000 IN.Y0  BREF = 936.6900 IN. ZHRP = 375.0000 IN.Z0  SCALE = .0300  RUN NO. 661/ 0 RN/L = 3.30 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL  10.416 -1.295 .59950 10.6123000590 .00540 .00000 5.86550 .0000000120 .0005000330  10.418 6.294 .59950 10.2914000080 .00360 .00000 5.86550 .0008000180 .0005000330  10.427 13.796 .59900 9.77720 .00180 .00220 .00000 5.8480 .0073000110 .00070 .00280  10.446 28.632 .59940 8.74400 .00980 .00220 .00000 5.84380 .0073000110 .00070 .00280  10.446 28.632 .59940 8.74400 .00980 .00220 .00000 5.8380 .00150 .00020 .00080 .00280  10.449 43.886 .59950 7.71030 .0077000280 .00000 5.8380 .00150 .00020 .0008000280  10.4490 48.115 .59900 7.41160 .0109000290 .00000 5.83890 .00150 .00060 .0008000270  10.4490 48.115 .59900 7.41160 .0109000290 .00000 5.83890 .00150 .00060 .0006000270  10.450 48.115 .59900 7.41160 .0109000290 .00000 5.83890 .00160 .00060 .0006000270  10.460 48.115 .59900 7.41160 .0109000290 .00000 5.83890 .00160 .00060 .0006000270  10.460 48.115 .59900 7.41160 .0109000290 .00000 5.83890 .00160 .00060 .0006000270  10.460 48.115 .59900 7.41160 .0109000290 .00000 5.83890 .00160 .00060 .0006000270  10.460 48.115 .59900 7.41160 .0109000290 .00000 5.83890 .00160 .00060 .0006000270  10.460 48.115 .59900 7.41160 .0109000290 .00000 5.83890 .00160 .00060 .0006000270		CHADIENI	.00800	.00000	.60000	.08080	.00000	.00800	.00000	.80080	.60000	-00006
SREF = 2690.0000 SQ.FT. XHRP = 1169.0000 IN.XO  LREF = 474.8100 IN. YHRP = .0000 IN.YO  BREF = 936.6900 IN. ZHRP = 375.0000 IN.ZO  SCALE = .0300  RUN NO. 661/ 0 RN/L = 3.30 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAD 0Z MACH 0X DY BETAO PHI ALPHAN BETA CY CLN CSL  10.416 -1.295 .59950 10.8123000590 .00640 .00000 5.86600 .0012000220 .0006000330  10.413 1.696 .59960 10.6077000370 .00510 .00000 5.86550 .0000000180 .0006000330  10.416 6.294 .59950 10.2914000080 .00360 .00000 5.86550 .0001000140 .0006000310  10.427 13.796 .59950 9.7772000180 .00260 .00000 5.85460 .0073000110 .0007000280  10.446 28.032 .59940 9.74400 .0098000260 .00000 5.83590 .00590 .00020 .00020 .0002000280  10.496 48.032 .59950 7.71030 .0077800280 .00000 5.83590 .00650 .00020 .00020 .0002000270  10.495 43.886 .59950 7.71030 .0077800200 .00000 5.83590 .00630 .00110 .00020 .0027000270  10.460 48.115 .69900 7.41160 .0109000290 .00000 5.83590 .00630 .00110 .00020 .0027000270  10.495 43.886 .59950 7.71030 .0077800200 .00000 5.83590 .00630 .00110 .0002000270  10.496 48.115 .69900 7.41160 .0109000290 .00000 5.83590 .00630 .00110 .0007000280				CVSD	747/1	02 S1	. (	ORBITER DATA	١	(CGN13	101 (50 T)	N 75 1
LREF = 474.8100 IN. YMRP = .0000 IN.YO		REFERENC	E DATA							PARAMETRIC	DATA	
LREF = 474.8100 IN. YMRP = .0000 IN.YO												
RUN NO. 661/ 0 RN/L = 3.30 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAD DZ HACH DX DY BETAD PHI ALPHAN BETA CY CLN CSL 10.416 -1.295 .59950 10.8123000590 .00540 .00000 5.86550 .0012000220 .0006000360 10.413 1.696 .59960 10.6077000370 .00510 .00000 5.86550 .0008000180 .0006000330 10.418 6.294 .59950 10.2914000080 .00360 .00000 5.86550 .0001000140 .0006000310 10.427 13.796 .59960 9.7772000180 .00220 .00000 5.85460 .0073000110 .00070 +.00280 10.446 28.632 .59940 8.74400 .0098000260 .00000 5.8460 .0073000110 .00070 +.00280 10.459 43.886 .59950 7.71030 .0077600200 .00000 5.83590 .00640 .00650 .0008000280 10.460 48.115 .59900 7.41160 .0109000390 .00000 5.83590 .00630 .00110 .0007000280												
SCALE = .0380  RUN NO. 661/ 0 RN/L = 3.30 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAD DZ HACH DX DY BETAD PHI ALPHAN BETA CY CLN CSL 10.416 -1.295 .59950 10.8123000590 .00540 .00000 5.86500 .0012000220 .0006000350 10.413 1.696 .59980 10.8077000370 .00510 .00000 5.86500 .0012000120 .0006000330 10.418 6.294 .59950 10.2914000080 .00360 .00000 5.86500 .0010000140 .0006000310 10.427 13.796 .59900 9.7772000180 .00220 .00000 5.85460 .0073000110 .00070 +.00280 10.446 88.632 .59940 8.74400 .0098000260 .00000 5.8460 .0073000110 .00070 +.00280 10.459 43.886 .59950 7.71030 .0077000200 .00000 5.83270 .00640 .00060 .0008000270 10.460 48.115 .59900 7.41160 .0109000390 .00000 5.83590 .00630 .00110 .0007000280												
ALPHAD DZ HACH DX DY BETAD PHI ALPHAH BETA CY CLN CSL 10.416 -1.295 .59950 10.6123000590 .00500 .00500 5.86550 .0008000180 .0005000310 10.418 6.294 .59950 10.2914000080 .00360 .00360 .00000 5.86550 .0001000140 .0005000310 10.427 13.796 .59950 9.7772000180 .00220 .00000 5.85460 .0073000110 .0005000310 10.446 88.632 .59940 8.74400 .0098000260 .00000 5.8450 .00000 5.8450 .0000000140 .0005000240 10.446 88.632 .59940 8.74400 .0098000260 .00000 5.8450 .00000 5.8450 .00020 .0000000240 10.459 43.886 .59950 7.71030 .0077000200 .00000 5.83270 .00640 .00050 .0005000270 10.460 48.115 .59900 7.41160 .0109000290 .00000 5.83590 .00630 .00110 .0007000280			ZMRP	= 375.00	100 IN.ZO							
RUN NO. 661/ 0 RN/L = 3.30 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAD DZ HACH DX DY BETAD PHI ALPHAH BETA CY CLN CSL 10.416 -1.295 .59950 10.6123000590 .00540 .00000 5.86500 .0012000220 .0006000360 10.413 1.696 .59960 10.6077000370 .00510 .00000 5.86550 .0008000180 .0006000330 10.418 6.294 .59950 10.2914000080 .00360 .00000 5.86130 .0001000140 .0006000310 10.427 13.796 .59900 9.7772000180 .00220 .00000 5.85460 .0073000110 .0007000280 10.446 88.632 .59940 8.74400 .0098000260 .00000 5.845000150 .00020 .0008000240 10.459 43.886 .59950 7.71030 .0077000200 .00000 5.83270 .00640 .00060 .0006000270 10.460 48.115 .59900 7.41160 .0109000390 .00000 5.83590 .00630 .00110 .0007000280	SUALE =	.0388										
ALPHAD DZ HACH DX DY BETAD PHI ALPHAN BETA CY CLN CSL 10.416 -1.295 .59950 10.8123000590 .00540 .00000 5.86550 .0012000220 .0006000350 10.413 1.696 .59960 10.6077000370 .00510 .00000 5.86550 .0009000180 .0006000330 10.418 6.294 .59950 10.2914000080 .00360 .00000 5.86550 .0001000140 .0006000310 10.427 13.796 .59900 9.7772000180 .00220 .00000 5.85460 .0073000110 .0007000280 10.446 28.832 .59940 8.74400 .0098000260 .00000 5.8438000150 .00020 .0008000240 10.459 43.686 .59950 7.71030 .0077600200 .00000 5.83270 .00640 .00060 .0006000270 10.460 48.115 .59900 7.41160 .0109000290 .00000 5.83590 .00630 .00110 .0007000280									DX =	10.000	DY =	.000
10.416       -1.295       .59950       10.81230      00590       .00640       .00000       5.86500       .00120      00220       .00560      00350         10.413       1.696       .59960       10.60770      00370       .00510       .00000       5.86550       .00090      00180       .00560      00330         10.418       6.294       .59950       10.29140      00080       .00360       .00000       5.86130       .00010      00140       .00560      00310         10.427       13.796       .59900       9.77720      00180       .00220       .00000       5.85460       .00730      00110       .0070      00280         10.446       28.032       .59940       9.74400       .00980      00260       .00000       5.84380      00150       .00200       .00240         10.459       43.896       .59950       7.71030       .00770      00200       .00000       5.83270       .00640       .0060       .00270      00280         10.460       48.115       .59900       7.41160       .01090      00390       .00000       5.83590       .0010       .0010       .00270      00280			RUN NO	. 661/ 0	RN/L =	3.30 GRA	DIENT INTER	RVAL = -1.0	10/ 4.60			
10.413       1.696       .59980       10.69770      00370       .00510       .00000       5.86550       .00080      00180       .00560      00330         10.418       6.294       .59950       10.29140      00080       .00360       .00000       5.86550       .00010      00140       .00560      00310         10.427       13.796       .59900       9.77720      00180       .00220       .00000       5.85460       .00730      00110       .0070      00280         10.446       28.032       .59940       8.74400       .00980      00260       .00000       5.84380      00150       .00020       .00240         10.459       43.896       .59950       7.71030       .00770      00200       .00000       5.83270       .00640       .0060       .00270      00280         10.460       48.115       .59900       7.41160       .01090      00390       .00000       5.83590       .0010       .0010       .00270		OZ	HACH	DX	DY	BETAD	PHI	ALPHAH	BETA	CY	CLN	CSL
10.418     6.294     .5950     10.29140    00080     .00360     .00000     5.66130     .00010    00140     .00050    00310       10.427     13.796     .59900     9.77720    00180     .00220     .00000     5.85460     .00730    00110     .0070    00280       10.446     28.832     .59940     8.74400     .00980    00260     .00000     5.84380    00150     .0020     .00080    00240       10.459     43.896     .59950     7.71030     .00770    00200     .00000     5.83270     .00640     .0060     .00270    00280       10.460     48.115     .59900     7.41160     .01090    00390     .00000     5.83590     .00630     .00110     .0070    00280										00220	.03060	00360
10.427 13.796 .59900 9.7772000180 .00220 .00000 5.85460 .0073000110 .0007000280   10.446 88.832 .59940 8.74400 .0098000260 .00000 5.8438000150 .00020 .0008000240   10.459 43.886 .59950 7.71030 .0077800200 .00000 5.83270 .00640 .00060 .0006000270   10.460 48.115 .59900 7.41160 .0109000390 .00000 5.83590 .00630 .00110 .0007000280								5.86550	.00080	00180	-00 <b>950</b>	00330
10.446 88.832 .59940 8.74400 .088000260 .00000 5.8438000150 .0020000240 10.459 43.886 .59950 7.71030 .0077600200 5.83270 .00640 .00060 .0006000270 10.460 48.115 .59900 7.41160 .0109000390 .00000 5.83590 .00630 .00110 .0002000280												00310
07500 03020. 03000. 04300. 0583.7 00000. 05000. 07703. 07703. 0800. 08000. 08000. 08000. 08000. 08000. 08000. 08000. 08000. 08000. 08000. 08000. 08000. 08000. 08000. 08000. 08000. 08000.											.00070	
00500- 07000 01100 0E300 0E300 00000 0E300- 09100 0310-7 00000 0E300-00000 0E300 0B4.01												
100000 100000 100000												
CDIDIENT BORDO BORDO BORDO BORDO 60000 GRADO 60000 GRADO 60000	រោ មេហិ	4R 115	-599111	7.41160	. Bingb	<b>-</b> .απΞ9ñ	ตกซกก	E OZEDN	00630	00110	00070	

DATE DI DEC 75

TABULATED SOURCE DATA - CA2B

DATE DI L	/EU /D	TABUL	ATED SOURCE	DATA - CA	V50					PA	Æ 395
			CA20	747/1	02 SI	•	DROITER DATA	4	(CGN1)	30) (20 J.	W 75 )
	REFERENC	E DATA							PARAMETRI(	BATA	
	2690.0000 sq.(			00.NJ 880				ALPHAC =	4.088	BETAC .	.000
LREF =	474.B100 IN.	YHRP		000 IN.YO				ELV-!B .	.080	ELV-08 =	3.000
BREF =	936.6800 IN.	ZHRP	<b>= 375.</b> 00	000 IN.ZO				ELEVON =	5.403	HACH =	.600
SCALE =	.0300							BETAO =	.000	PHI =	.000
								DX -	10.000	DY -	.000
		RUN NO.	659/ 0	RN/L •	3.31 GRA	DIENT INTER	RVAL = -1.0	00/ 4.00			
ALPHA0	DZ	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
14.654	1.473	.59920	9.49420	.00240	00220	.00000	5.89550	01400	00280	.00230	00160
14.652	4.559	.59970	9.28000	00770	00200	.00000	5.89380	.00760	00310	.00220	00070
14.654	9.090	.60080	8.97890	00540	00190	.00000	5.68430	00040	00330	.08280	.00020
14.654	16.527	.59930	0.45720	00110	00280	.00800	5.87540	00068	00240	.00160	.00060
14.662	31.535	.59920	7.42330	.01230	00790	.00000	5.08080	.00650	.00000	.00120	08060
14.669	46.582	.60080	6.38510	.01520	00730	.00000	5.85040	00160	.08090	.00110	00080
14.666	61.500	.59930	5.35300	.02020	01170	.00000	5.64130	.00630	.00210	.00:30	00090
	GRADIENT	.00000	.00800	.00000	.00000	.00000	.00800	.00000	.00000	.00080	.00000
			0100			_					
			CARO	747/1	02 SI	C	RESITER DATA		(CGN13	11 (50 T)	พ 75 เ
	REFERENCE	DATA							PARAMETRIC	DATA	
	2690.0000 <b>sq.</b> F			08.И1 60				ALPHAC =	4.080	BETAC .	.000
LREF =	474.8100 IN.	YMRP		07.NI 00				ELV-IB =	.000	ELV-08 =	3.000
BREF =	936.6800 IN.	ZHRP	<b>375.00</b>	100 IN.ZO				ELEVON =	5.080	HACH =	.600
SCALE .	.0300							BETAO =	.000	PH1 =	.000
								DX =	20.000	<b>- 10</b>	.000
		RUN NO.	665/ 0	RN/L =	3.29 GRAD	DIENT INTER	VAL = -1.0	0/ 4.60			
ALPHAO	DZ	HACH	OX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
10.344	-1.157	.60020	20.75990	01360	.01070	.0000	5.85580	.00810	00390	.00040	00319
10.344	1.504	.60090	20.57800	01080	.00820	.00000	5.65790	.00760	~.00350	.00010	00280
10.359	6.352	.6.780	20.24040	01160	.00820	.00000	5.65700	.00570	00360	.00050	~.00260
10.371	13.612	.60090	19.74450	08940	.00660	.00000	5.84970	.00620	00320	.00070	00240
10.391	28.736	.59970	18.70630	00410	.00160	.00000	5.83920	.01320	00138	.08080	00220
10.408	43.609	.59970	17.66210	.00120	.00220	.00080	5.83580	.00580	00100	.00050	00240
10.488	48.295	.59950	17.34990	.00520	.00030	.00000	5.83690	.08580	00030	.00050	00250
	GRADIENT	.00000	.00000	.00000	.00000	.00080	.00000	.00000	.00000	.00000	.00000
					_		- <del>-</del> <del>-</del>			100000	+60000

ORBITER DATA CA20 747/1 02 SI (CGN131) ( 20 JAN 75 ) REFERENCE DATA PARAMETRIC DATA XMRP = 1109.0000 IN.XO ALPHAC . BETAC = SREF = 2890.0000 SQ.FT. 4.000 YMRP = .0000 IN.YO .000 LREF # 474.8180 IN. ELV-19 = ELV-08 . 3.000 OREF = 936.6800 IN. ZHRP = 375.0000 IN.ZO ELEVON = 5.000 HACH .600 SCALE = .0300 BETAO -.000 .000 PHI 20.600 DY .000 RN/L = 3.30 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 666/ 0 ALPHAD MACH DX DY BETAO ALPHAH CSL DZ PHI BETA CY CLH 14.563 .60070 19.36720 -.00550 .00370 .00000 5.88270 -.00740 -.00430 -.00280 1.265 .00200 14.551 3.972 .59970 19.17960 -.01280 .00290 .00000 5.88100 .00760 -.00410 .00200 -.00248 14.566 18.85000 -.01360 .00120 .00000 5.97500 -.00430 3.805 .60090 .00680 .00210 -.00120 .00046 .00000 5.86880 14.572 16.457 .60070 18.32510 ~.01960 .01380 -.08480 .00210 .00030 14.587 31.737 .59980 17.27880 ~.08459 -.00270 .00000 5.85150 .00560 -.00250 .00150 -00086 14.590 46.430 .60030 16.26130 .00240 -.00300 .00000 5.84570 .01340 -.08010 .00090 -.00110 -.00780 14.592 61.104 .69010 15.24460 .01090 .00000 5.84000 .01330 .00150 .00110 -.00140 GRADIENT -.00037 -.06931 -.00270 -.00030 .00000 -.00063 .00554 .00007 .00000 .00015 CA20 747/1 02 51 ORBITER DATA (CGN132) ( 20 JAN 75 ) REFERENCE DATA PARAPETRIC DATA SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO ALPHAC = 8.000 BETAC = YHRP = .0000 IN.YO ELY-18 = ELV-OB = LREF = 474.8100 IN. .000 3.000 BREF -936.6800 IN. ZMRP - 375.0000 IN.ZO ELEVON = 5.000 HACH -.500 SCALE . .0300 BETAD = .000 PHI .000 DX -.600 DY .000 RUN NO. 3:5:0 3 3:4/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	MACH	Dit	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CST
10.325	-3.370	.60020	58589	01940	.00440	.00000	9.73255	.05010	00190	.00120	00518
10.339	-,284	.59980	-1.68620	02030	.00540	.80000	9.73490	.04910	00210	.00100	00410
10.358	4.265	.59930	-1.62680	01399	.00340	.00800	9.73230	.04020	00140	.00080	00360
10.393	11.674	.59358	-2.64370	01290	.86776	.00000	9.72790	.03930	00130	.00000	00320
10.467	26.974	.60060	-4.76500	00550	0000	.00000	9.72060	.04650	.80088	.00080	00260
10.499	41.940	.60090	-6.84130	00280	00156	.00000	9.71560	.03910	.00030	.00060	00270
10.584	47.907	.59960	-7.57290	.00000	00430	.00000	9.71420	.04670	.0000	.00280	00280
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00800	.00000	.00000	.00000

# TAGIN ATER SOURCE DATA - CAZO

DATE 01 DEC 75	TABULATE	D SOURCE D	ATA - CA	20						
		CAZO	747/1	02 SI	0	RBITER DATA		(CGN132	) ( 20 JA	(75 )
REFERE	INCE DATA						1	PARAHETRIC	DATA	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								0.000	BETAC =	.008
SREF = 2690.8800 S	Q.FT. XHRP .	1109.000	D IN.XO				ALPHAC =		ELV-08 =	3.003
LREF = 74.8100 1		.000	0 IN.YO				ELV-IB =			.600
BREF - #36.8800		375.000	0 IN.ZO				ELEVON =		HACH =	.830
SCALE = .0380							BETAO =	**	PHI #	
1270				-			DX *	.000	DY =	.000
	RUN NO.	654/ 0	RN/L =	3.27 GRAD	DIENT INTER	NAL1.0	8/ 4.00			
	MACH	DX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL.
ALPHAO DZ 14.639 -1.095			01490	.00090	.00000	9.77180	.64100	00210	.00210	00420
			01540	.00040	.00000	9.77590	.04040	00230	.00210	80358
			-,01730	00880	.00000	9,76190	.04759	00260	.00240	00320
• • • • • • • • • • • • • • • • • • • •	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		01860	00120	.00000	9.75180	.03900	00339	.00230	90110
14.669 13.867	,		01178	00600	.00000	9.73820	.05370	00190	.00190	-00070
14.708 28.918		8.13400	.00140	00650	.00000	9.72610	.04610	.00070	.00110	00120
14.717 43.759	,	0.22410	.01690	01250	.00000	9.72190	.03880	.00290	.00120	00200
14.720 58.717	*******	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
GRADIENT	.00800	.00000	.00000	.00000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		CY50	747/1	02 S1	ı	ORBITER DATA	<b>X</b>	(CGN13	3) (50 J)	H 7! 1
REFER	ENCE DATA							PARAMETRIC	DATA	
							ALPHAC =	8,000	BETAC =	.000
SREF = 2690.0000			00 IN.XO				ELY-18 =	.000	ELV-08 *	3.000
LREF = 474.8100			00 IN.YO				ELEVON -	5.000	HACH *	.600
BREF = 936.6800	IN. ZHRP	= 375.001	80 IN.ZO				BETAO =	.000	PH1 #	.000
SCALE = .0300							DX =	10.000	DY =	.000
	RUN NO.	658/ 0	RN/L =	3.32 GRA	DIENT INTE	RVAL = -1.	UU/ 4.60			
ALPHAO DZ	HACH	DΧ	DY	BETAO	PHI	ALPHAH	BETA	CY.	CLH	CSL
		9.46660	00230	.03660	.00000	9.73350	00380	00200	.00070	00460
<b>7</b>		9.04960	00670	.00710	.00000	9.73400	.00310	00230	.08060	00390
	• • • • • • • • • • • • • • • • • • • •	8.41940	00380	.00540	.00000	9,73010	.00210	00180	.00060	00350
		7.39060	00170	.00420	.00000	9.72910	.00100	+,00150	.00000	00310
10.320 11.768 10.383 26.778		5.31340	.00370		.00000	9.72150	.00810	00020	.00080	00270
	- · · · · · · · · · · · · · · · · · · ·	3.20170	.01180		.00000	9.71970	00690	.02030	.00050	00290
10.43) 41.916	-	2.26430	.01190		.08000	9,71860	.00070	.08080	.08060	~.00280
10.441 48.64° GRADIEN	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	F.Fd:::						.00000	.00000	.00000
	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00500	.00000	,00000

.000

CA28 747/1 02 S1

ORBITER DATA

(CGN133) ( 20 JAN 75 )

BETAC .

ERENCE	

SREF	#	2690.0000 SQ.FT.	XMRP	-	1109.0000	IN.XO
LREF	*	474.8100 IN.	YMRP	-	.0000	IN.YO
BREE		936.6200 IN.	ZMRP	•	375.0000	IN.20

BREF = 936.6800 IN. ZMRP = 375.0800 IN.20 SCALE = .0300

- DA -

ALPHAC =

ELV-IB = .000 ELV-OB = 3.000 .600 ELEVON = 5.000 MACH BETAD -.000 PHI .000 DX 10.000 DY .000

PARAMETRIC CATA

8.000

RUN NO. 660/ 0 RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00

ALFHAO 14.520 14.524 14.540 14.557 14.611	02 -1.391 1.080 6.163 13.465 28.593 43.596	MACH .50010 .59980 .59910 .59920 .59930	DX 8.03730 7.69910 7.00390 6.00060 3.91600 1.83370	DY .60340 .00410 00180 00690 .60730	8ETAO .00250 .00150 .00050 00840 00720 00600	PHI .80000 .00080 .00000 .80000 .00000	ALPHAH 9.76000 9.75850 9.75340 9.74660 9.73550 9.72810	9ETA 00500 00550 .00920 .01620 00030	00110 00110 00130 00190 00160 00160	CLN .00130 .00130 .00140 .00180 .00220	CSL 00450 00390 00320 00270 00120
14.634 14.648	43.596 58.440 Gradient	.6994 <b>0</b> .6888. .08080	1.83370 23670 .00000	.00150 .01520 .00808	00600 01150 .00000	02020. 02020. 02020.	9.72810 9.72500 .00000	.00760 .00040 .00000	.0000 <b>0</b> .00000	.00200.	.00000 00000

CA20 747/1 02 ST

ORBITER DATA

(CGN134) ( 20 JAN 75 )

# REFERENCE DATA

SREF	•	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN.XC
LREF	=	474.8100	IN.	YKRP	•	.0000	IN.YC
EREF	=	936.6800	IN.	ZMRP		375.0000	IN.ZC
SCALE	=	.0308					

# PARAMETRIC DATA

ALPHAC	=	8.000	DETAC	•	.020
ELY-18	=	.000	ELV-08	-	3.000
ELEVON	=	5.000	HACH		.800
BETAO	=	.000	PHI	=	.000
ΩX	=	20.000	DY	-	.000

DHIN NO	6687.0	SN/I a	3.28	GRADIENT	INTERVAL =	-1.00/	4.00

ALPHAO 10.184 10.194 10.227 10.297 10.347	02 -3.785 .797 8.220 23.195 38.211	MACH .59970 .60000 .69910 .60060	9X 19.58280 18.95340 17.92718 15.64870	DY 01150 01600 00760 00440 00420	BETAO .01250 .01120 .00809 .00240	PHI .00000 .00000 .00000 .00000	ALPHAN 9.73010 9.73130 9.72960 9.72530 9.72080	BETA .01050 .01700 .00910 .01510	CY 00340 00340 00270 00130 00030	CLN .69000 .90000 .00020 .00050	00310 00310 00379 00240 00240
10.347	38.211 49.358 GRADIENT	.60000	12.19640 12.00000	.00940	00190	00000.	9.72110	.00000	.00050	00000.	0025 <b>0</b>

DATE 01 DEC 75

#### TABULATED SOURCE DATA - CARD

CA20 747/1 02 SI ORBITER DATA (CGN134) ( 20 JAN 75 1 REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO ALPHAC -8.080 BETAC -.000 LREF = 474.8100 IN. YHRP = .0000 IN.YO ELV-18 = .000 ELV-OB \* 3.000 935.6880 IN. ZHRP = 375.0000 IN.20 ELEVON . HACH .608 BREF = 5.000 SCALE = .0380 BETAO = PHI .000 .000 ВX 20.000 DY .000 RN/L = 3,29 GRADIENT INTERVAL - -1.00/ 4.00 RUN NO. 667/ 0 ALPHA0 DZ MACH DX DY BETAO PHI ALPHAH BETA CY CLH CSL .60080 18.05030 -.00450 .00860 .08000 9.75580 .00220 -.00280 14.434 -1.978.00080 -.09450 14.439 1.123 .59910 17.63650 -.00300 .00720 .00000 9.75390 .00130 -.00260 .00080 -.00370 5.657 .60090 17.01440 -.00600 .00540 .00000 9.75090 .00810 -.00240 14.458 .00090 -.00310 14.482 .59930 15.98070 -.00680 .00360 .00000 9.74550 .00740 13.159 -.00270 .00120 -.00240 14.529 28.036 .59980 13.92490 -.00740 -.00290 .00000 9.73940 -.00220 -.00200 .01440 .00210 14.557 42.826 .60040 11,87180 -.00890 -.08280 .08080 9.73310 .01490 -.00260 .00190 -.00070 9.78330 14.572 57.824 .60030 .00220 -.00830 .00000 9.72650 .00760 -.00140 .00220 .00010 GRADIENT .00000 .00008 .00000 .00000 .00000 .00000 .00080 .00000 .00000 .00000 CY50 747/1 ORBITER DATA 12 S0 1CGN1351 ( 20 JAN 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SQ.FT. XHRP = 1109.0000 IN.XO ALPHAC = 4.600 BETAC = -5.000 LREF = 474.B100 IN. YHRP = .0000 IN.YO ELV-IB = .000 ELV-08 = 3.000 BREF = 936.6800 IN. ZHRP = 375.0000 IN.ZO ELEVON = HACH 5.000 .600 SCALE = 00200 BETAO = .000 PHI .000 DX .000 DY 10.000 RUN NO. 728/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00 **ALPHAO** DZ HACH ĐΧ DΥ BETAO PHI **ALPHAH** BETA CY CLN CSL 10.520 -1.686 .59940 .87430 11.02640 .03050 .00000 5.82670 -4.95860 -.00590 -.00110 -.00490 10.517 1.116 .60050 .68300 11.02080 .63090 000000 5.82390 -4.95160 -.00670 -.00080 -.00480 10.515 5.425 .60030 .39060 11,02730 .02690 .00000 5.81750 -4.96100 -.00630 -.00030 -.00460 10.523 13.266 .60010 -.14640 11.64010 .01690 .000000 5.81350 -4.94970 -.00450 .00030 -.00420 10.531 28.048 .59920 -1.15190 11.06910 .00140 .00000 5.80280 -4.96350 -.CD139 -.00360 .00120 10.541 43.286 .60080 -2.18980 11.08330 -.00620 .00000 5.79360 -4.96030 .00070 .00130 -.00340 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

CA20 747/1 02 St

#### ORBITER DATA

# (CCH1361 ( 20 JAN 75 )

	ÉRE		.TA

#### SREF = 2690.0000 SQ.FT. XMAP = 1109.0000 IN.XO YHRP = OY.NI 0000. LREF . 474.8100 IN.

BREF = 936.6800 IN. SCALE =

ZMRP = 375.0000 IN.20

.0300

PARAMETRIC DATA

ALPHAC	-	4.000	BETAC	•	-5.000
ELV-18		.000	ELV-09	-	3.008
ELEVON		5.000	HACH		.600
BETAD	=	.000	PHI	-	.000
DX	=	10.600	DY	=	10.000

RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.08 RUN NO. 732/ 0

ALPHAD	DZ	МАСН	DX	ĐY	BETAD	PHI	ALPHAH	BETA	CY	CLN	CSL
10.431	-2.314	.59980	10.86780	11.92090	.02560	.00003	5.85030	-5.00450	00550	00120	00350
10.429	1.200	.60050	10.62870	11.91570	.02550	.00000	5,84850	-4.99710	00610	00080	00370
10.436	5.568	.60040	10.32740	11.92110	.02320	.08080	5.84590	-5.00550	00590	00050	00390
10.442	12.949	.60080	9.82710	11.92880	.01650	.00000	5.83690	-5.00300	00460	.00010	00398
10.461	28.270	.60060	8.77308	11.95600	CEOCO.	.08080	5.03260	-5.00920	00070	.00100	0036 <b>0</b>
10.477	43.283	.60010	7.73500	11.96800	08888	.08880	5.82690	-5.00680	.00110	.00120	co34 <b>0</b>
10.478	47.866	.59970	7.47070	11.97270	00720	.00800	5.82790	-5.01380	.00130	.00120	~.00340
	GRADIENT	.00080	.08080	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CA20 747/1 02 SI

ORBITER DATA

(CGN137) ( 20 JAN 75 )

### REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XHRP		1109.0000	IN.X
LREF	-	474.BICO	IN.	YMRP	•	.0008	IN.YC
BREF	-	936.6800	IN.	乙代紀	*	375.0000	IN.20
CONE	_	0200					

# PARAMETRIC DATA

ALPHAC	•	4.000	BETAC	=	.600
ELV-1B	•	.000	ELV-08	=	3.000
ELEVON	=	5.000	HACH		.609
BETAD	=	.000	PHI	•	.000
ĐΧ		.000	DY		10.000

#### GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 727/ 0 RN/L = 3.35

ALPHAO 10.539 10.532 10.533 10.535 10.542 10.549	DZ -1.720 1.145 5.590 13.225 28.323 43.196	MACH .69990 .59910 .60050 .60040 .60050	DX .88540 .69770 .38650 13250 -1.16330 -2.17890	DY 9.98370 9.97640 9.97520 9.98060 9.99290	BETAO .01890 .02070 .01990 .01510 .00450	PHI .00000 .00000 .00000 .00000	ALPHAH 5.83340 5.83250 5.82510 5.81720 5.80900 5.79920	BETA .03150 .02160 .01060 00130 .00090 00580	CY 60010 60190 60270 09260 09130 .09040	CLN 00100 00090 00050 .00000 .00000	01160 00950 00790 00630 00460 00400
.0.0.5	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-00000	-00000

DATE OF DEC 75

GRADIENT

TABULATED SOURCE DATA - CA28

(CGN138) ( 20 JAN 75 ) ORBITER DATA CARD 747/1 02 SI PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC -.000 XMRP = 1109.0800 IN.XO = 2690.0000 SQ.FT. ELV-18 = .000 ELV-08 = 3.000 YHRP = .0000 IN.YO 474.8100 IN. .600 ELEVON -5.800 HACH 2MRP 375,0000 IN.ZO 936.6800 IN. BREF \* .000 BETAG = .000 PHI SCALE = .0300 10.000 10.000 DY DX GRADIENT INTERVAL = -1.00/ 4.00 3.29 RUN NO. 731/ 0 RN/L = CSL. CY CLN DY **BETAO** PHI ALPHAH BETA DX ALPHAO DZ HACH -.01100 .08980 -.00120 -.00090 .01980 .00000 5,65620 9.98490 .60030 10.85750 10.438 -1.917 -.00900 -.00260 -.00070 5.85440 .08880 .02020 .00000 .69060 10.63520 9.95920 10.439 1.309 -.00760 .07270 -.00320 -.00050 9.95380 .01960 .00000 5.85330 .60020 10.33640 5.640 10.441 -.00300 -.00010 -.00620 .01540 .00000 5.84330 .06110 9.96040 .60080 9.83160 10.446 13.088 5.83680 .07070 -.00100 .80070 -.00470 .00000 8.79230 9,96980 .00380 28.151 .60020 10.464 .00100 -.00400 .05640 .00080 9.98720 -.00320 .00000 5.82780 .59990 7.75180 10.475 43.272 -.00390 .00120 5.02360 .05460 .00098 -.00500 .00000 .59910 7.49000 9.98650 47.051 10.474 .00000 .60888 .00080 .00000 .00000 .00000 .00000 .00008 .00800 .00000 GRADIENT (CG/1139) ( 20 JAN 75 ) ORBITER DATA CASO 747/1 02 51 PARAMETRIC DATA REFERENCE DATA 5.000 4,000 BETAC = ALPHAC = XHRP = 1109.0000 IN.XO 2690,0000 SQ.FT. 3.000 .oco ELV-08 = ELV-IB = 474.8100 IN. .0000 IN.YO YMRP LREF ELEVON = 5.000 HACH .600 ZHRP = 375.0000 IN.20 BREF = 936.6800 IN. .000 BETAG -.000 PHI .0300 SCALE = ĐY 10.000 .000 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 729/ 0 CLN CSL BETA CY DY **BETAO** PHI **ALPHAH** HACH ĐΧ ALPHA0 OZ -.00170 -.02010 5.83180 5.12510 -.00240 ,04008 .00000 8.78140 .60090 .88480 10.550 -1.816 -.01520 5.11980 -.00300 -.00140 5.82790 .03380 .00000 1.291 .59920 .67080 8.78380 10.536 -.00100 -.01170 5.10560 -.00310 8.78850 .02850 .00000 5.82240 .60090 .37070 5.717 10.535 -.00860 5.09230 -.00290 -.00040 .00000 5.81730 8,79650 .02160 -.13060 10.534 13.051 .59980 -.00580 .00050 5.09540 -.00170 .00820 .00000 5.88400 -1.16040 0.60860 .59940 28.194 10,539 -.00440 5.79690 -.00050 .00090 .00800 5.10330 8.81680 .00680 -2.19520 .60000 10.541 43.343 .00000 .00000 .00000 .00000 .00000 .00800 .00800 .00000 .00000 .00000

10.504 10.516 10.523

42.970

GRADIENT

CAZB

-.13550

-1.15670 -2.16400

.00000

.59950

.59950

.59980

.00800

-.00840

-.00310

.00060

.00000

747/1 02 SI

-.00180

-.00200

.00000

.00020

.00000

.00000

( 20 JAN 75 )

(CGN140)

-.00130

-.00070

-.00020

.00000

-.00060

.00870 -.00120 -.00000

PARAMETRIC DATA REFERENCE DATA 5,000 BETAC 4.000 ALPHAC = XMRP = 1109.0000 IN.XO 2690.0000 SQ.FT. ELV-08 = 3.000 .008 ELV-18 = .0000 IN.YO LREF \* 474.8100 IN. YMRP = .600 MACH = 5.000 ELEVON # 375.0000 IN.ZO BREF 936.6900 IN. ZMRP = .000 PHI .000 BETAO = SCALE = .0300 10.080 DY 16,000 DX GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 733/ 0 RN/L = 3.26CY BETA ALPHAH BETAO DX DY -.01950 MACH ALPHAO -.00320 -.00120 5.01710 .00000 5.85460 7.94520 .03540 -1.821 .60040 10.83530 10.454 -.00350 -.00100 -.01520 5.01310 5.85280 .03110 .00000 7.94600 10.62330 1.281 .60080 -.01180 10.451 -.00070 -.00330 4.99880 .02550 .00000 5.84950 7.95330 5.640 .60050 10.32500 10.450 -.08B70 -.00300 -.00030 4.99280 .01940 .00000 5.B4150 9.81810 7.95780 10.454 13.081 .60000 .00080 -.00580 -.08140 4.99560 .00000 5.83440 7.96920 8.77030 10.469 28.314 .60080 .00030 **→.0045**0 -.00030 4.99600 .00000 5.82840 .000050 7.74450 7.97620 43.187 .60060 10.478 .00100 -.08430 .00010 4.99530 .00000 5.83180 -.00120 7.97888 47.015 .60040 7.47410 10.479 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT ( 20 JAN 75 ) (CGN141) ORBITER DATA CASO 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 4.000 BETAC = ALPHAC = 1109.0000 IN.XO XMRP = SREF = 2690.0000 SQ.FT. ELV-CB = 13.000 10.000 ELY-IB = YMRP = .0000 IN.YO LREF 474.8100 IN. 7 MACH = .600 ELEVON = 5.000 ZMRP 375.0000 IN.ZO 935.6800 IN. BREF = .000 PHI ,000 BETAO = SCALE = .0300 .000 .000 DY GRADIENT INTERVAL = -1.00/ 4.00 707/ 0 RN/L ≠ 3.25 RUN NO. BETA CY **ALPHAW** DY BETAO PHI MACH ALPHAO -.00280-.00200 -.00840 .00050 .00000 5.83190 .87920 -.01420 .01180 -1.884 .60080 10.523 -.00240 .00020 -.00170 -.00050 .00000 5.83240 -.01200 .01100 .68446 10.504 .978 .59910 -.00220 -.00050 .00740 -.00170 .01060 .00000 5.82540 5.523 13.055 28.092 -.01360 .59930 .37690 10.501 -.00190 -.00030

.00810

.00260

.00280

.00000

.00000

.00000

5.81690

5.80490

5.79720

.00000

CRBITER DATA

DATE OI DEC 75

TABULATED SOURCE DATA - CAZO

PAGE 403

REFERENCE DATA		75										
See				CARD	747/1	OI 51	OF	ATAG RETIES		(CGH141	1 (50 7%	H 75 1
REFERENCE DATA  REFERENCE DATA  REPLACE = 2690.0000 90.FT.				4,								
See		DEFERENCE	DATA						i	PARAMETRIC	DATA	
Sept   2500, 0000 50.FT   2549   1109,0000   1N,70   110,0000   1N,70   1N		1121 21121100	, 2,,,,,									500
SCALE   935.6500   M.   YIFF   375.000   IN.ZO	CDCF - 261	იი იიიი ფი.ნ	T. XHRP	- 1109.00	00 IN.XO					-		
REPT   933.6800   IN.   2HP   = 375.0800   IN. 20												
RUN NO. 7087   0   RIV. =   3.19   GRADIENT INTERVAL = -1.07   4.00   V  000   V  0000   V  00000   V  000000   V  000000   V  000000   V  000000   V  000000			****						ELEVON =			
RUN NO. 708/ 0 RN/L = 3.19 GRADIENT INTERVAL = -1.67/ 4.00  ALPHAO OZ HACH DX DY BETAO PHI ALPHAN BETA CY CLN CSL 11.771 7.498 5.59901340 .00759 .00000 5.6989000769 .00200 .0001000130 11.777 7.498 5.59907061001170 .00750 .00000 5.698900007000210 .0001000130 11.777 7.498 5.59907061001170 .00750 .00000 5.698700076000210 .0001000130 11.775 14.994 .50030 -1.2879006650 .00470 .00000 5.6987000140 .0000000180 .0004000180 11.775 14.994 .50030 -1.2879000560 .00470 .00000 5.6987000140 .00000 .0004000180 11.775 14.994 .50000 -1.30230 .0045000460 .00000 5.6987000140 .00020 .0004000160 11.775 GRADIENT0026508930 .0045000000 5.6987000140 .00020 .0004000160 11.773 45.117 .0002600850 .00440 .00000 5.6987000140 .00020 .0004000160 11.773 GRADIENT0026508930 .0004500000 5.6987000140 .00020 .0004000160 .00000 5.6987000140 .00020 .0004000160 .00000 5.605900140 .00020 .0004000160 .00000 5.605900140 .00020 .0004000160 .00000 5.605900140 .00020 .0004000160 .00020 .0004000160 .00000 5.605900140 .00020 .0004000160 .00020 .0004000160 .00020 .0004000160 .00020 .00040 .00020 .0004000160 .00020 .0004000160 .00020 .00040 .00020 .0004000160 .00020 .00040 .00020 .0004000020 .00040 .00020 .00040 .00020 .00040 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .00020 .									BETAO =			
ALPHAO DZ HACH DX DY BETAO PHI ALPHAO 6CTA CY CLN CSL 19.911	SCALE =	-0300							0x =	.000	DY =	.000
ALPHAO DZ HACH DX DY BETAO PHI ALPHAO 6CTA CY CLN CSL 19.911												
ALPHAO   DZ			DIEN NO.	709/ 0	RN/L =	3.19 GRAD	IENT INTER	VAL = -1.6	V 4.00			
HACH   DX			110.1 100.	. 100, 0					-			
14-181	AL DUAG	07	MACH	£Χ	DY	DETAO	PHI					
14.787				26990	01340	.00790	.00000					
14.771 7.498					01140	.00780	.00880					
14.765 14.964 15.930 14.762 14.762 14.773 14.773 14.773 15.175 14.762 14.773 14.773 15.175 14.773 15.175 14.773 15.175 14.773 15.175 14.773 15.175 14.773 15.175 14.773 15.175 14.773 15.175 14.773 15.175 14.773 15.175 14.773 15.175 14.773 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15.175 15					01170	.00750	.00000	5.85370				
14.762					08650	.00478	.00000	5.83950	00790			
19.773						.00060	.00000	5.81920	80140	00050		
14.773			•				.00000	5.80690	00140	.00020		
CASIDENT   -1.0000   F.   CASIDENT   F.   CA	•					•	.00000	~.00093	.00715	.08026	08017	.00013
REFERENCE DATA  SREF = 2690.0000 S0.FT. XHRP = 1109.0000 IN.X0  LREF = 474.8100 IN. YHRP = .0000 IN.Y0  LREF = 936.6800 IN. ZHRP = 375.0000 IN.Z0  SCALE = .0300  RUN NO. 7097 0 RN/L = 3.26 GRADIENT INTERVAL = -1.007 4.00  ALPHAC = 4.000 BETAC = .000  PHI = .000  DX = .000 DY = .000  ALPHAC = 4.000 BETAC = .000  HACH = .600  DX = .000 DY = .000  ALPHAC = .000 PHI = .000  DX = .000 DY = .000  ALPHAC = .000 PHI = .000  SCALE = .0300  RUN NO. 7097 0 RN/L = 3.26 GRADIENT INTERVAL = -1.007 4.00  ALPHAC = 4.000 BETAC = .000 PHI = .000  DX = .000 DY = .0000  ALPHAC = .000 PHI = .000  DX = .0000 DY = .0000  ALPHAC = .000 PHI = .000  DX = .0000 DY = .0000  ALPHAC = .000 PHI = .000  DX = .0000 DY = .0000 00270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027000270002700027		GRADIENI	00026	005303	.0000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	••					
REFERENCE DATA  SREF = 2690.0000 S0.FT. XHRP = 1109.0000 IN.X0  LREF = 474.8100 IN. YHRP = .0000 IN.Y0  LREF = 936.6800 IN. ZHRP = 375.0000 IN.Z0  SCALE = .0300  RUN NO. 7097 0 RN/L = 3.26 GRADIENT INTERVAL = -1.007 4.00  ALPHAC = 4.000 BETAC = .000  DY = .000  DY = .000  ALPHAC = 4.000 BETAC = .000  DY = .000  DY = .000  ALPHAC = 4.000 BETAC = .000  DY = .000  DY = .000  ALPHAC = 0.000 DY = .000  DY = .000  CSCALE = .0300  RUN NO. 7097 0 RN/L = 3.26 GRADIENT INTERVAL = -1.007 4.00  ALPHAC = 4.000 BETAC = .000  DY = .000  DY = .000  CSCALE = .0300 DY = .0000  ALPHAC = 4.000 BETAC = .000  DY = .0000  DY = .0000  CSCALE = .0300 DY = .0000  ALPHAC = 4.000 BETAC = .000  DY = .0000  DY = .0000  CSCALE = .0000 DY = .0000  ALPHAC = 4.000 BETAC = .000  DY = .0000  DY = .0000  CSCALE = .0000 DY = .0000  ALPHAC = 4.000 BETAC = .000  DY = .0000  CSCALE = .0000 DY = .0000  ALPHAC = 4.000 BETAC = .000  DY = .0000  CSCALE = .0000 DY = .0000  ALPHAC = 4.000 BETAC = .000  DY = .0000  CSCALE = .0000 DY = .0000  ALPHAC = 4.000 BETAC = .0000  DY = .0000  CSCALE = .0000 DY = .0000  ALPHAC = 4.000 BETAC = .0000  DY = .0000  CSCALE = .0000 DY = .00000  ALPHAC = 4.000 BETAC = .0000  DY = .0000  CSCALE = .0000 DY = .00000  ALPHAC = 4.000 BETAC = .0000  DY = .0000  CSCALE = .0000 DY = .00000  ALPHAC = 4.000 BETAC = .0000  DY = .0000  CSCALE = .0000 DY = .00000  ALPHAC = 4.000 BETAC = .0000  DY = .0000  CSCALE = .0000 DY = .00000  ALPHAC = 4.000 BETAC = .0000  DY = .0000  CSCALE = .0000 DY = .00000  ALPHAC = 4.000 BETAC = .0000  DY = .0000  CSCALE = .0000 DY = .00000  ALPHAC = 4.000 BETAC = .0000  DY = .0000  CSCALE = .0000 DY = .00000  DY = .00000  ALPHAC = 4.000 BETAC = .0000  DY = .00000  CSCALE = .0000 DY = .00000  DY = .00000  DY = .00000  CSCALE = .00000 DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00000  DY = .00												
REFERENCE DATA  SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.X0  LREF = 474.8100 IN. YMRP = .0000 IN.Y0  BREF = 936.6800 IN. ZMRP = 375.0000 IN.Z0  SCALE = .0300  RUN NO. 709/ D RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ HACH DX DY -0.01330 .01170 .00000 5.67190 .00110 .00200 .00200 .00200 10.492 .755 .59940 .70150 -0.01330 .01170 .00000 5.67190 .00110 .0016000250 .00220 10.492 .755 .59940 .70150 -0.01330 .01170 .00000 5.85560 .00190 .00000 .00000 10.591 12.922 .60020 -1.1430 .01030 .00000 .00000 5.85560 .00190 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000				CARO	747/1	OI SI	0	RBITER DATA	•	(CGN14	21 (20 J	W 75 )
REFERENCE DATA  SREF = 2690.0000 SQ.FT.					••••	•• ••						
SREF = 2690.0000 SQ.FT. XHRP = 1109.0000 IN.X0  LREF = 474.8100 IN. YHRP = .0000 IN.Y0  BREF = 936.6800 IN. ZHRP = 375.0000 IN.Z0  RUN NO. 709/ D RN/L = 3.26 GRADIENT INTERVAL = -1.007 4.00  ALPHAO DZ HACH DX DY BETAO PHI ALPHAN BETA CY CLN CSL 10.492		OCCCOENC	E DATA							PARAHETRIC	DATA	
SREF = 2650,0000 S0.FT. XFRP = 1109,0000 IN.X0  LREF = 474,8100 IN. YFRP = .0000 IN.X0  SCALE = .0300  RUN NO. 709/ 0 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00  RUN NO. 709/ 0 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00  RUN NO. 709/ 0 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ HACH DX DY BETAO PHI ALPHAM BETA CY CLN CSL  10.510 -2.321 .59970 .9102001330 .01170 .00000 5.8743000070002700003000250  10.492 .765 .59940 .7015001330 .01170 .00000 5.87430001600020000050  10.498 5.227 .60050 .4005001330 .01100 .00000 5.8968000160002000004000220  10.491 12.922 .600201143001030 .00900 .00000 5.8958000160002000003000170  10.501 27.765 .59920 -2.1589000220 .00300 .00000 5.89450 .0059000000 .0000000000  10.504 42.754 .59920 -2.1589000220 .00320 .00000 5.89450 .0059000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .0000		REFEREN	LUMIN									
REF   474.8100   N.   YMPP   =   .0000   IN.YO     ELV-08   =   .71.000   ELV-08   =   .7	- 20		ET YHDD	= 1109.0	00.N1 000				ALPHAC =			
REF = 935.6800 IN. ZMRP = 375.0000 IN.20    RUN NO. 709/ 0   RN/L = 3.26   GRADIENT INTERVAL = -1.00/ 4.00   RUN NO. 709/ 0   RN/L = 3.26   GRADIENT INTERVAL = -1.00/ 4.00   RUN NO. 709/ 0   RN/L = 3.26   GRADIENT INTERVAL = -1.00/ 4.00   ALPHAO   DZ									ELY-18 =	-10.000		
SCALE = .0300  RUN NO. 7097 0 RN/L = 3.26 GRADIENT INTERVAL = -1.007 4.00  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL 10.510 -2.321 .59970 .9102001930 .01330 .00000 5.8743000070002700027000250 10.492 .765 .59940 .7015001330 .01170 .00000 5.87190001100018000250 10.498 5.227 .60050 .4005001330 .01170 .00000 5.8668000160002000004000220 10.498 12.822 .60020 -1143001330 .01100 .00000 5.8556000190 .001600003000190 10.491 12.822 .60020 -1.143001330 .00900 .00000 5.84560 .0054000070 .0002000170 10.501 27.760 .60030 -1.1301000340 .00300 .00000 5.84560 .0054000070 .0000000170 10.504 42.754 .59920 -2.1589000220 .00320 .00000 5.84560 .0053000040 .0000000200 10.504 42.754 .59920 -2.1589000220 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000									ELEVON =	5.000		
ALPHAO DZ HACH DX DY BETAO PHI ALPHAU BETA CY CLN CSL 10.510 -2.321 .59970 .9102001930 .01330 .00000 5.8743000100002700027000270 10.492 .765 .59940 .7015001330 .01170 .00000 5.87190001100018000250 10.498 5.227 .60050 .4005001330 .01100 .00000 5.8668000160002200004000220 10.491 12.922 .600201143001030 .00900 .00000 5.8556000160002200016000220 10.501 27.760 .60030 -1.1301000340 .00300 .00000 5.84550 .0054000070 .0002000170 10.504 42.754 .59920 -2.1588000220 .00320 .00000 5.84560 .0053000040 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	-		Zrm-	- 3,3,0	000 111120				BETAO =	.880	PHI =	
ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL 10.510 -2.321 .59970 .9102001830 .01330 .00000 5.8743000070002700003000290 10.492 .765 .59940 .7015001330 .01170 .00000 5.8719000110001800005000250 10.492 .765 .59940 .7015001330 .01170 .00000 5.8668000160002000004000220 10.493 12.822 .600201143001030 .00980 .00000 5.8556000190001600020000190 10.501 27.760 .60030 -1.1301000340 .00300 .00000 5.84560 .0054000070 .0002000170 10.504 42.754 .59920 -2.1588000220 .00320 .00000 5.84560 .0053000040 .0000000200 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL 14.880 .715 .593903324001950 .00930 .00000 5.901270085000410 .0010000090 14.880 .715 .593903324001950 .00930 .00000 5.897700095000330 .0006000070 14.881 8.214 .593905465001550 .00790 .00000 5.8978000240 .00240 .0004000110 14.893 15.830 .59320 -1.3685000580 .00540 .00000 5.893200095000330 .0004000130 14.893 15.830 .59320 -1.3685000580 .00540 .00000 5.8932000950 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	SCALE =	.0300							0x =	.000	DA =	.000
ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL 10.510 -2.321 .59970 .9102001830 .01330 .00000 5.8743000070002700003000290 10.492 .765 .59940 .7015001330 .01170 .00000 5.8719000110001800005000220 10.492 .765 .59940 .7015001330 .01170 .00000 5.8668000160002000004000220 10.493 12.822 .600201143001030 .00900 .00000 5.8556000190001600023000190 10.501 27.760 .60030 -1.1301000340 .00300 .00000 5.84560 .0054000070 .0002000170 10.504 42.754 .59920 -2.1586000220 .00320 .00000 5.84560 .0053000040 .0000000200 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL 14.880 .715 .593903324001950 .00830 .00000 5.891200055000410 .0010000090 14.881 8.214 .5939035465001550 .00790 .00000 5.897700095000330 .0006000070 14.843 8.214 .593908475001270 .00700 .00000 5.89200055000240 .00040 .0004000110 14.831 15.830 .59320 -1.3685000580 .00540 .00000 5.892000550 .00070 .00030 .00030 .00000 1.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000												
ALPHAO DZ HACH DX DY BETAO PHI ALPHAU BETA CY CLN CSL 10.510 -2.321 .59970 .9102001830 .01330 .00000 5.8743000070002700003000290 10.492 .765 .59940 .7015001330 .01170 .00000 5.8719000110001800005000250 10.492 .765 .59940 .7015001330 .01170 .00000 5.8688000160002000004000220 10.492 12.822 .600201143001030 .00980 .00000 5.8556000190001600020000190 10.501 27.760 .60030 -1.1301000340 .00300 .00000 5.84560 .0054000070 .0002000170 10.501 27.760 .60030 -1.1301000340 .00300 .00000 5.84560 .0054000070 .0002000170 10.504 42.754 .59920 -2.1588000220 .00320 .00000 5.84560 .0053000040 .0000000200 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000												
ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CS.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CO.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CD.  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CO.  ALPHAO DZ HACH DX DX DY BETAO PHI ALPHAH BETA CY CN CO.  ALPHAO DZ HACH DX			CHAIN NO	7/19/ 0	RN/L =	3.26 UKA	DIENT INTER	RVAL = -1.0	30/ 4.00			
ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CSL  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CN CSL  ALPHAO BZ			RUN NO	. 709/ 0	RN/L =	3,26 GKA	DIENT INTER	RVAL = -1.0	30/ 4.00			
10.492		0.7										
10.498			насн	DХ	DY	BETAO	PHI	ALPHAH	BETA		00030	00290
10.498	10.510	-2.321	насн .59970	.91020	DY 01930	BETA0 .01330	PH1 .00000	ALPHAH 5.87430	BETA 00070	00270	00030	0029 <b>0</b> 00250
10.501 27.760 .60030 -1.1301009340 .00300 .00000 5.84560 .0054000040 .0000000200 10.564 42.754 .59920 -2.1588000220 .60320 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	10.510 10.498	-2.321 .765	HACH .59970 .59940	DX .91020 .70159	DY 01930 01330	BETAO .01330 .01170	PHI .00000 .00000	ALPHAH 5.87430 5.87190	BETA 00070 00110	00270 00180	00030 00050 00040	00290 00250 05250
10.501 27.765	10.510 10.492 10.488	-2.321 .765 5.227	HACH .59970 .59940 .60050	DX .91020 .70150 .40850	DY 01930 01330 01330	BETAO .01330 .01170 .01100	PHI .00000 .00000	ALPHAH 5.87430 5.87190 5.86680	BETA 00070 00110 00160	00270 00180 00200	00030 00050 00040	00290 00250 05250
10.564   42.754   .59920   -2.15830   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000   .000000   .00000   .00000   .00000   .00000   .00000   .00000   .000000   .00000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .00000000	10.510 10.492 10.488 10.491	-2.321 .765 5.227 12.822	HACH .59970 .59940 .60050 .60020	9X .91020 .70150 .40850	DY 01930 01330 01330	BETAO .01330 .01170 .01100 .00900	PHI .00000 .00000 .00000	ALPHAH 5.87430 5.87190 5.86680 5.85650	BETA 00070 00110 00160 00190	00270 60180 00200 00160	00030 00050 00040 00030	00290 00250 00220 00190
RUN NO. 710/ 0 RN/L = 3.82 GRADIENT INTERVAL = -1.00/ 4.00  ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLH CSL 14.880 .715 .593903324001950 .00930 .00000 5.901270085000410 .0010000090 14.855 3.826 .600005465001550 .00790 .00000 5.897700095000330 .0006000170 14.843 8.214 .599908475001270 .00700 .00000 5.8919000240 .0004000110 14.833 15.830 .59920 -1.3685000680 .00540 .00000 5.879200095000170 .0003000130 14.832 3D.666 .59990 -2.37840 .00030 .00040 .00000 5.86980 .0055000250 .0004000130	10.510 10.492 10.488 10.491 10.501	-2.321 .765 5.227 12.822 27.760	HACH .59970 .59940 .60050 .60020	DX .91020 .70150 .40050 11430	DY 01930 01330 01330 010330	BETAO .01330 .01170 .01100 .00900	PHI .00000 .00000 .00000 .00000	ALPHAN 5.87430 5.87190 5.86680 5.85660 5.84560	BETA 00070 00110 00160 00190	00270 00180 00200 00160 00070	00030 00050 00040 00030	00290 00250 00220 00190 00170
ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLH CSL 14.880 .715 .593903324001950 .00930 .00000 5.901270085000410 .0010000090 14.855 3.826 .600005465001550 .00790 .00000 5.897700095000330 .0006000070 14.843 8.214 .599908475001270 .00700 .00000 5.891900024000240 .0004000110 14.833 15.830 .59920 -1.3685000680 .00540 .00000 5.80900 .0050000170 .0003000130 14.832 3D.666 .59990 -2.37840 .00030 .00040 .00000 5.80980 .0055000250 .0004000130	10.510 10.492 10.488 10.491 10.501	-2.321 .765 5.227 12.822 27.760 42.754	HACH .59970 .59940 .60050 .60020 .60030	DX .91020 .70150 .40050 11430 -1.13010 -2.15880	DY 01930 01330 01330 010330 002340	BETAO .01330 .01170 .01100 .00900 .00300	PHI .00000 .00000 .00000 .00000 .00000	ALPHAN 5.87430 5.87190 5.86680 5.85660 5.84560 5.84080	BETA 00070 00110 00160 00190 .00540 .00530	00270 00180 00200 00160 00070 00040	00030 00050 00040 00030 .00020	00290 00250 00220 00190 00178 00200
ALPHAO DZ HACH DX DY BETAO PHI ALPHAH BETA CY CLH CSL 14.880 .715 .593903324001950 .00930 .00000 5.901270085000410 .0010000090 14.855 3.826 .600005465001550 .00790 .00000 5.897700095000330 .0006000708 14.843 8.214 .599908475001270 .00700 .00000 5.891900024000240 .0004000110 14.833 15.830 .59920 -1.3685000680 .00540 .00000 5.879200095000170 .0003000130 14.832 3D.666 .59990 -2.37840 .00030 .00040 .00000 5.86980 .0055000250 .0004000150	10.510 10.492 10.488 10.491 10.501	-2.321 .765 5.227 12.822 27.760 42.754	HACH .59970 .59940 .60050 .60020 .60030	DX .91020 .70150 .40050 11430 -1.13010 -2.15880	DY 01930 01330 01330 010330 002340	BETAO .01330 .01170 .01100 .00900 .00300	PHI .00000 .00000 .00000 .00000 .00000	ALPHAN 5.87430 5.87190 5.86680 5.85660 5.84560 5.84080	BETA 00070 00110 00160 00190 .00540 .00530	00270 00180 00200 00160 00070 00040	00030 00050 00040 00030 .00020	00290 00250 00220 00190 00178 00200
ALPHAO DZ HACH DX DY BETAU FRI ALPHAO DZ0090 .000000090 .000000090 .000000090 .000000090 .000000090 .000000090 .000000090 .000000090 .000000090 .000000090 .000000090 .000000090 .000000090 .000000090 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000900 .0000000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000900009000090000	10.510 10.492 10.488 10.491 10.501	-2.321 .765 5.227 12.822 27.760 42.754	HACH .59970 .59940 .60050 .60030 .59920 .00000	9X .91020 .70150 .40050 11430 -1.13010 -2.15890	DY 01930 01330 01330 00340 00220	BETAO .01330 .01170 .01100 .00900 .00300 .00300	PHI .00000 .00000 .00000 .00000 .00000	ALPHAH 5.87430 5.87190 5.86680 5.85660 5.84560 5.84080	BETA 00076 00110 00160 00190 .00540 .00530	00270 00180 00200 00160 00070 00040	00030 00050 00040 00030 .00020	00290 00250 00220 00190 00178 00200
ALPHAO 07 MACH 0X 07 0.0090 .00000 5.901270085000410 .001000090 14.880 .715 .593903324001550 .00790 .00000 5.89770005000330 .0006000700 14.843 8.214 .599908475001270 .00700 .00000 5.8919000240 .00240 .0004000110 14.843 8.214 .599908475000580 .00540 .00000 5.891900050000170 .0003000130 14.833 15.830 .59920 -1.3685000580 .00540 .00000 5.86080 .0050000020 .0004000130 14.832 30.666 .59990 -2.37840 .00030 .00040 .00000 5.898000050000150 .0003000150	10.510 10.492 10.488 10.491 10.501	-2.321 .765 5.227 12.822 27.760 42.754	HACH .59970 .59940 .60050 .60030 .59920 .00000	9X .91020 .70150 .40050 11430 -1.13010 -2.15890	DY 01930 01330 01330 00340 00220	BETAO .01330 .01170 .01100 .00900 .00300 .00300	PHI .00000 .00000 .00000 .00000 .00000	ALPHAH 5.87430 5.87190 5.86680 5.85660 5.84560 5.84080	BETA 00076 00110 00160 00190 .00540 .00530	00270 00180 00200 00160 00070 00040	00030 00050 00040 00030 .00020	00290 00250 00220 00190 00178 00200
14.880 .715 .593903324001550 .00000 5.89770005000330 .0006000078 14.855 3.826 .600005455001550 .000790 .00000 5.8917000240 .00240 .0004000110 14.843 8.214 .599906475001270 .000700 .00000 5.891900050000170 .0003000130 14.833 15.830 .59920 -1.3685000580 .00540 .00000 5.86080 .0050000100 .0004000130 14.832 30.666 .59990 -2.37640 .00030 .00040 .00000 5.8898000250 .00010 .0003000150	10.510 10.492 10.488 10.491 10.501 10.504	-2.321 .765 5.227 12.822 27.760 42.754 GRADIENT	HACH .59970 .59940 .60050 .60030 .59920 .00000	9X .91020 .70150 .40050 11430 -1.13010 -2.15880 .00000	DY 01830 01330 01330 01930 00340 00220 .00000	BETAO .01330 .01170 .01100 .00900 .00300 .00320 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	ALPHAH 5.87430 5.87190 5.86680 5.85660 5.84560 5.84080 .00000	BETA 00070 00110 00160 00190 .00540 .00530 .00000	00270 00180 00200 00160 00070 00040	00030 00050 00040 00030 .00020 .00000	00290 00250 00220 00170 00170 00200 .00000
14.855 3.826 .600005455001350 .60200 5.8919000240 .0004000110 14.843 8.214 .599906475001270 .00000 5.891900050000170 .0003000130 14.833 15.830 .69920 -1.3685000580 .00540 .00000 5.869200050000170 .0003000130 14.832 30.666 .59990 -2.37640 .00030 .00040 .00000 5.8898000250 .00010 .0003000150	10.510 10.492 10.488 10.491 10.501 10.504	-2.321 .765 5.227 12.822 27.760 42.754 GRADIENT	HACH .59970 .59940 .60050 .60020 .60030 .59920 .00000	9X .91020 .70150 .40050 11430 -1.13010 -2.15880 .00000	DY018300133001330016300024000220 .00000 RN/L =	BETAO .01330 .01170 .01100 .00900 .00300 .00320 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 PHI	ALPHAH 5.87430 5.87190 5.86680 5.85660 5.84560 5.84080 .00000	BETA 00070 00110 00160 00190 .00540 .00530 .00000	00270 00160 00200 00160 00070 00040	00030 00050 00040 00030 .00000 00000	00290 00250 00220 00170 00170 00200 .00000
14.843 8.214 .5999084750 .01270 .00700 5.879200095000170 .0003000130 .14.833 15.830 .59920 -1.36850 .00500 .00040 .00040 .00040 .00000 5.8692000500 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040 .00040	10.510 10.492 10.488 10.491 10.501 10.504	-2.321 .765 5.227 12.822 27.760 42.754 GRADIENT	HACH .59970 .59940 .60050 .60020 .60030 .59920 .00000 RUN M	9X .91020 .70150 .40050 11430 -1.13010 -2.15890 .00000	DY018300133001330013300034000220 .00000 RN/L =	BETAO .01330 .01170 .01100 .00900 .00300 .00320 .00000	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	ALPHAH 5.87430 5.87190 5.86680 5.85660 5.84560 .00000 RVAL = -1.	BETA 00070 00110 00160 00190 .00540 .00530 .00800 GD/ 4.00	00270 60160 00200 00160 00070 00040 .00000	00030 00050 00040 00030 .00020 .00000 .00000	00290 00250 00220 00190 00170 00200 .00000
14.833 15.830 .69920 -1.36850 .00000 .00000 5.86800 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	10.510 10.492 10.488 10.491 10.501 10.504 ALPHAO 14.880	-2.321 .765 5.227 12.822 27.760 42.754 GRADIENT	HACH .59970 .59940 .60050 .60020 .60030 .59920 .00000 RUN M HACH .59390	9X .91020 .70150 .40050 11430 -1.13010 -2.15890 .00000 0. 7107 0 DX 33240 54650	DY018300133001330013300034000220 .00000 RN/L = DY0195001550	BETAO .01330 .01170 .01100 .00900 .00300 .00320 .00000 3.22 GRA	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.87430 5.87190 5.86680 5.84560 5.84560 .00000 RVAL = -1.	BETA00070001100016000190 .00540 .00530 .00000  BETA0095000950	00270 00160 00200 00070 00040 .00000	00030 00050 00040 00030 .00020 .00000 .00000	00290 00250 00220 00170 00200 .00000
14.832 30.668 .59990 -2.37640 .00030 .00040 .00000 5.88680 .005000050 .0003000150	10.510 10.492 10.498 10.491 10.501 10.564 ALPHAO 14.880	-2.321 .765 5.227 12.822 27.760 42.754 GRADIENT	HACH .59970 .59940 .60050 .60030 .59920 .00000 RUN M HACH .59390 .60000	DX .91020 .70150 .40050 11430 -1.13010 -2.15890 .00000 O. 710/ 0 DX 33240 54650 64750	DY019300133001330013300034000220 .00000 RN/L = DY015500127001270	BETAO .01330 .01170 .01100 .00900 .00320 .00000 3.22 GRA BETAO .00830 .00790	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.87190 5.8680 5.86660 5.84560 5.84080 .00080 RVAL = -1. ALPHAH 5.90124 5.89770 5.89190	BETA00070001100016000190 .00540 .00530 .00000  BETA009500095000950	00270 00160 00200 00070 00040 .00000 CY 00310 00330	00030 00050 00040 00030 .00020 .00000 .00000	00290 00250 00220 00170 00200 .00000 00000
	10.510 10.492 10.498 10.491 10.501 10.564 ALPHAO 14.880 14.855 14.843	-2.321 .765 5.227 12.822 27.760 42.754 GRADIENT DZ .715 3.826 8.214	HACH .59970 .59940 .60050 .60030 .59920 .00000 RUN IX HACH .59390 .60000 .59990	DX .91020 .70150 .40050 -11430 -1.13010 -2.15890 .00000 0. 710/ 0 DX 33240 54650 84750 -1.36850	DY019300133001330013300034000220 .00000 RN/L = DY01950015500127000580	BETAO .01330 .01170 .01100 .00900 .00320 .00000 3.22 GRA BETAO .00830 .00790 .00790	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.87430 5.87190 5.86680 5.84560 5.84560 5.84080 .00000 RVAL = -1. ALPHAH 5.90127 5.89770 5.89190 5.87920	BETA00076001100016000190 .00540 .00530 .00000  BETA009500095000950	00270 00160 00200 00070 00040 .00000 CY 00310 00330 00240	00030 00050 00040 00030 .00020 .00000 .00000	00290 00250 00250 00170 00170 00000 .00000 00000 00000 00070 00110 00130
14.845 45.837 .60070 -3.41720 .00350 .00310 .00300 .3.41720 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300	10.910 10.492 10.488 10.491 10.501 10.564 ALPHAO 14.880 14.855 14.843	-2.321 .765 5.227 12.822 27.760 42.754 GRADIENT OZ .715 3.826 8.214 15.830	HACH .59970 .59940 .60050 .60030 .59920 .00000 RUN IX HACH .59390 .60000 .59990	DX .91020 .70150 .40050 -11430 -1.13010 -2.15890 .00000 0. 710/ 0 DX 33240 54650 84750 -1.36850	DY019300133001330010300094000220 .00000 RN/L = DY01950015500127000580	BETAO .01330 .01170 .01100 .00900 .00300 .00300 3.22 GRA BETAO .00830 .00790 .00790 .00540	PHI .00000 .00000 .00000 .00000 .00000 PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.87430 5.87190 5.86680 5.85660 5.84680 .00000  RVAL = -1.  ALPHAH 5.90129 5.89770 5.89190 5.87920 5.86080	BETA00076001100016000190 .00530 .00000  007 4.00  BETA009500095000950	00270 00180 00200 00160 00070 00040 .00000 CY 00410 00330 00240 00170	00030 00050 00040 00030 .00000 .00000 .00000 .00000 .00060 .00040	00290 00250 00220 80190 00170 00200 .00000 00000 00090 00110 00130
	10.510 10.492 10.488 10.491 10.501 10.564 ALPHAO 14.880 14.885 14.843 14.833	-2.321 .765 5.227 12.822 27.760 42.754 GRADIENT OZ .715 3.826 8.214 15.830 30.668	HACH .59970 .59940 .60050 .60030 .59920 .00000 RUN IX HACH .59390 .60000 .59990	DX .91020 .70150 .40050 11430 -1.13010 -2.15880 .00000 DX 33240 54650 84750 -1.36850 -2.37640 -3.41720	DY0183001330013300103000000 RN/L = DY019500127000000 .00000	BETAO .01330 .01170 .01100 .00900 .00300 .00300 .00000 3.22 GRA BETAO .00930 .00790 .00700 .00540 .00940	PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	ALPHAM 5.87430 5.87190 5.86680 5.85660 5.84080 .00000  RVAL = -1.  ALPHAM 5.90124 5.89770 5.89190 5.89800 5.84980	BETA00070001100016000190 .00540 .00500 .00000  BETA0095000950009500095000950	0027000160002000016000000  CY0031000300003100017000020	00030 00050 00040 00030 .00000 .00000 .00000 .00000 .00000 .00040 .00030 .00040	00290 00250 00220 00170 00170 00200 .00000 CSL 00090 00110 00130 00130 00150
nearteen county - august twenty	10.510 10.492 10.488 10.491 10.501 10.564 ALPHAO 14.880 14.855 14.843	-2.321 .765 5.227 12.822 27.760 42.754 GRADIENT OZ .715 3.826 8.214 15.830 30.668	HACH .59970 .59940 .60050 .60020 .60030 .59920 .00000 RUN IN HACH .59390 .60000 .59990	DX .91020 .70150 .40050 11430 -1.13010 -2.15889 .00000 0. 7107 0 DX 33240 54650 84750 -1.36850 -2.37640	DY019300133001330010300094000220 .00000 RN/L = DY01950015500127000580	BETAO .01330 .01170 .01100 .00900 .00300 .00300 .00000 3.22 GRA BETAO .00930 .00790 .00700 .00540 .00940	PHI .00000 .00000 .00000 .00000 .00000 PHI .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.87430 5.87190 5.86680 5.85660 5.84680 .00000  RVAL = -1.  ALPHAH 5.90129 5.89770 5.89190 5.87920 5.86080	BETA00076001100016000190 .00530 .00000  007 4.00  BETA009500095000950	00270 00180 00200 00160 00070 00040 .00000 CY 00410 00330 00240 00170	00030 00050 00040 00030 .00000 .00000 .00000 .00000 .00000 .00040 .00030 .00040	00290 00250 00220 80190 00170 00200 .00000 CSL 00090 00110 00130 00130

-----

				CAZO	747/	ı	01	51	ORBITER DATA (CGN143) ( 20 JAN 75	5 3
	REFE	RENCE DAT	TA						PARAMETRIC DATA	
SREF =	690.0000 474.9100	IN.		1109.000 .000	O IN.	YO.			RUD-U = 15.000 RUD-L = 15.	.000 .000 .000

LREF =	474.8100 IN.	1120		.0000 IN. TO				ELEVON =	5.000	AILRON =	.000
BREF =	936.6800 IN.	ZMRP	* 375.	.0000 IN.ZO				EETAD =	.000	PHI =	-000
SCALE =	.0350.							DX =	.000	DY =	.000
								<b></b>			
		RUN NO.	711/ 0	RN/L =	3.26 GRA	DIENT INTER	WAL = -1.00	4.00			
ALPHAO	02	MACH	DX	ÐΥ	0AT38	PHI	ALPHAH	BETA	CY	CLN	CSL
10.504	-2.028	.60040	.90190	00790	.00910	.00000	5.83170	.02080	00100	00040	00330
10.465	.931	.60010	.70250	00660	.00820	.00000	5.83280	.02910	00050	00060	032 <b>90</b>
10.460	5,560	.59930	38950	00470	.00730	.08880	5.82470	.02230	00060	00040	00260
10.486	12.957	.60060	11140	00170	.00580	.00000	5.81620	.02310	~.08020	00048	00230
10.495	27.683	.59980	-1.12660	00090	.00160	.00000	5.80430	.03860	.00000	.00000	00180
10.513	42.996	.68040	-2.16493	.00170	.00120	.00000	5.79700	.03140	.00020	.03010	002 <b>:0</b>
10.5.5	GRADIENT	.00000	.08000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
		RUN NO.	. 712/ 0	RN/L =	3.23 GRA	DIENT INTER	RVAL = -1.00	)/ 4.00			
ALPHAC	) DZ	MACH	ОX	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	¢ar
14.850	. 257	.59970	28590	~.00380	.00380	.00000	<b>5.</b> 66580	.01490	00130	.00060	~.00194
14.835	3.331	.60060	49550		.00300	.00088	5.85000	.02250	00060	.00030	00180
14.623	7.779	.59390	68840	00110	.00300	.00000	5.85040	.02240	00040	.00010	00178
14.816	15.438	.60000	-1.32290	.00000	.00190	.00000	5.83870	.02460	00020	.00020	00150
14.812	30,319	.69000	-2.33750	.09570	+.00120	.00000	5.82890	.02360	.00059	.00030	00150
14.814	45.332	.60030	-3.36420		00280	.00008	5.80920	.03159	.00120	.00030	00160
	GRADIENT	.00029	06840	.08855	+.00026	.00000	80189	.00248	.00023	00010	.00003

-.0EB40

.00029

GRADIENT



DATE OF DEC 75

TABULATED SOURCE DATA - CA20

									CCCN144	) (20 JA	4 /21 }
			CA20	747/1	02 \$1	OH	28ITER DATA		16681137		
	REFERENCE	DATA						F	ARAHETRIC	DATA	
		. XHRP	- 1109.00	00 IN.XO				ALPHAC =	4.000	BETAC =	.050
	10.0800 SQ.FT	· AFERP		00 IN.YO				RU0-U =	15.000	RUD-L =	15.000
	14.8100 IN.	ZMRP		00 IN.ZO				ELEVON =	5.000	AILRON =	.000
	16.6800 IN.	Zene	- 3/3.00					BETAO =	.000	PHI *	-000
CALE =	.0300							DX =	.000	DA =	.000
	•	RUN NO.	. 725/ 0	RN/L =	3.35 GRAD	IENT INTER	VAL = -1.00	9/ 4.60	•		
	07	MACH	ĐΧ	DY	BETAO	PHI	ALPHAH	BETA	CY	CLN	CSL
ALPHAG	DZ -2.198	.59920	.86940	02120	.00900	.00000	5.83560	.64360	00290	.00370	00350
10.493	-c. 196 .673	.60080	.65950	01790	.00720	.00800	5.83230	.04430	~.00250	.00070	00290
10.490	.673 5.397	.60040	.34600	01580	.00630	.00000	5.82620	.04540	00210	.00860	00270
10.498	5.397 12.963	.60040	17686	01280	.00430	.00000	5.82890	.04640	00180	.83 <b>078</b>	00230
10.503	12.963 28.653	.68080	-1.20520	00340	00140	.00000	5.81010	.05480	00020	.00070	00200
10.527		.59978	-2.22510	00150	00120	.00000	5.80140	.05530	.00020	.00250	00210
10.533	42.969 GRADIENT	.00300	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
	PKYDIENI	.00000		*******							
			CAZO	747/1	DI 51	0	RBITER DATA		(CGN14	5) (20 J	N 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
	LICE CLASSING	WAIN									
					·			11 DHIC #	4.000	BETAC =	.000
SREF = 269	90.0800 SQ.F	T. XMRP	• • • • •	000 IN.XO	•			ALPHAC =	4.000		
LREF = 4'	90.0800 SQ.F 74.8100 IN.	Т. ХИКР ҮНКР	0	OY.NI QOO	•			ELV-IB .	.000	ELY-08 =	.000 3.000 003.
LREF = 4'	90.0808 SQ.F	T. XMRP	0		٠			EFEAON =	.000 000	ELV-08 =	3.000
LREF = 4	90.0800 SQ.F 74.8100 IN.	Т. ХИКР ҮНКР	0	OY.NI QOO				ELV-IB .	.000	ELV-08 =	3.000
LREF = 4' BREF = 9'	90.0800 SQ.F 74.8100 IN. 36.6800 IN.	Т. ХИКР ҮНКР	= .00 = 375.00	OY.NI QOO	3.37 GRA	DIENT INTER	RVAL = '-1.C	ELV-1B = ELEVON = BETAO = DX =	.000 .000 000	ELV-08 = HACH = PHI =	3.000 .600 .000
LREF = 4' BREF = 9' SCALE =	90.0000 SQ.F 74.8100 IN. 36.6800 IN.	T. XHRP YHRP ZHRP	= .09 = 375.09	RN/L =	3.37 GRAI	DIENT INTER PH1	RVAL = '-1.0 Alphan	ELV-1B = ELEVON = BETAO = DX =	.000 .000 .000	ELY-OB = HACH = PHI = DY = CLN	3.000 .600 .000 .000
LREF = 4' BREF = 9: SCALE =  ALPHAO	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300	T. XHRP YHRP ZHRP RUN NO HACH	= .6: = 375.0: 1. 719/0	RN/L =				ELV-IB = ELEVON = BETAO = DX =	.000 .000 .000 .000	ELY-08 = HACH = PHI = DY =  CLN .00000	3.000 .600 .000 .000
LREF = 4' BREF = 9: SCALE =  ALPHAO 10.508	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300 DZ -2.315	T. XMRP YMRP ZMRP RUN NO MACH .59950	= .6 = 375.0 1. 719/0 DX .86160	RN/L =  EY02240	BETAO	PH1	ALPHAH	ELV-1B = ELEVON = BETAO = DX = CO/ 4.00	.000 .000 .000 .000	ELY-08 = HACH = PHI = DY =  CLN .0000000010	3.000 .600 .000 .000 .000
LREF = 4' BREF = 9' SCALE =  ALPHAO 10.508 10.485	90.0000 SQ.F 74.8100 IN. 136.6800 IN. .0300 DZ -2.315	T. XHRP YHRP ZHRP RUN NO HACH .59950 .60010	= .84 = 375.00 1. 719/ 0 DX .86160 .64410	RN/L =  DY02240	08510 08510	PH1 .00080	ALPHAL 00028.2	ELV-1B = ELEVON = BETAO = DX =  DX =  DY 4.00  BETA .01600	.000 .000 .000 .000 .002 .00230 00230	ELY-08 = HACH = PHI = DY =  CLN .0000000010	3.000 .600 .000 .000 .000 CSL 0023 0019
ALPHAO 10.508 10.485 10.479	90.0000 SQ.F 74.9100 IN. 136.6800 IN. .0300 DZ -2.315 .910 5.273	T. XHRP YHRP ZHRP RUN NO HACH .59950 .60010	= .84 = 375.00 DX .86160 .64410 .34780	RN/L =  DY022400156001470	BETAO .01230 .01010	PH1 .00080 .00000	ALPHAH 5.83900 5.83720	ELV-1B = ELEVON = BETAG = DX = DX = CO/ 4.00 BETA .01600 .00790	.000 .000 .000 .000	ELY-08 = HACH = PHI = DY =  CLN .0000000010 .00000	3.000 .600 .000 .000 .000 CSL 0023 0019 0017
ALPHAO 10.508 10.495 10.493	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300 DZ -2.315 .910 5.273 12.814	T. XHRP YHRP ZHRP RUN NO HACH .59950 .60010 .60050	= .84 = 375.00 DX .86160 .64410 .3478017030	RN/L =  DY02240015600147001270	BETAO .01230 .01010 .00900 .00720	PH1 .00080 .00000	ALPHAH 5.83900 5.83720 5.83290	ELV-1B = ELEVON = BETAU = DX = DX = DX = DO/ 4.00 BETA .01600 .00790 .00740	.000 .000 .000 .000 .002 .00230 00230	ELY-08 = HACH = PHI = DY =  CLN .0000000010	3.000 .600 .000 .000 .000 CSL 0023 0019 0017
ALPHAO 10.508 10.495 10.493 10.514	90.0000 SQ.F 74.8100 IN. 36.6800 IN. ,0300 DZ -2.315 .910 5.273 12.814 27.985	T. XHRP YHRP ZHRP RUN NO HACH .59950 .60010 .60050 .59990	= .64 = 375.00 DX .86160 .64410 .34780 -17030 -1.20940	RN/L =  DY02240015600147001270	BETAO .01230 .01010 .08900 .00720 .00240	PH1 .00080 .00000 .00000	ALPHAN 5.83900 5.83720 5.83290 5.82510	ELV-18 = ELEVON = BETAU = DX =  DX =  DX =  DX =  00/ 4.00  BETA .01600 .00790 .00740 .00690	.000 .000 .000 .000 .000 .0020 00230 00230	ELY-OB = HACH = PHI = DY =  CLN .0000000010 .00000 .00000	3.000 .600 .000 .000 .000 CSL 0023 0019 0014 0011
ALPHAO 10.508 10.495 10.493 10.516	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300 DZ -2.315 .910 5.273 12.814	T. XHRP YHRP ZHRP RUN NO HACH .59950 .60010 .60050	= .84 = 375.00 DX .86160 .64410 .3478017030	RN/L =  DY02240015600147001270	BETAO .01230 .01010 .00900 .00720	PH1 .00080 .00000 .00000 .00000	ALPHAN 5.83900 5.83720 5.83290 5.82510 5.81500	ELV-1B = ELEVON = BETAU = DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =	.000 .000 .000 .000 .002 00230 00230 00210 00210	ELY-08 = HACH = PHI = DY =  CLN .0000000010 .00000 .00000	3.000 .600 .000 .000 .000 CSL 00199 00191 00110
ALPHAO 10.508 10.495 10.493 10.516	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300 DZ -2.315 .910 5.273 12.814 27.985 42.855	T. XMRP YMRP ZMRP RUN NO MACH .59950 .60010 .60050 .59990 .60060	= .64 = 375.00 DX .86160 .64410 .34780 -1.7030 -1.20940 -2.22930 .00000	RN/L =  EY0224001560014700127000590	BETAO .01230 .01010 .00900 .00720 .00240 .00230	PH1 .00080 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.83900 5.83720 5.83290 5.82510 5.81500 5.81680	ELV-1B = ELEVON = BETAG = DX =  DX =  DX =  DX =  00/ 4.00  BETA .01600 .00790 .00740 .00690 .01410 .00000	.000 .000 .000 .000 .000 00300 00230 00210 00210	ELY-OB = HACH = PHI = DY =  CLN .0000000010 .00000 .00000	3.000 .600 .000 .000 .000 CSL 0023 0019 0014 0011
ALPHAO 10.508 10.485 10.493 10.514 10.516	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300 DZ -2.315 .910 5.273 12.614 27.985 42.855 GRADIENT	T. XMRP YMRP ZMRP RUN NO MACH .59950 .60010 .60050 .59990 .59990 .60060	= .64 = 375.00 DX .86160 .64410 .34780 -1.7030 -1.20940 -2.22930 .00000	RN/L =  CY022400156001470012700059000000	BETAO .01230 .01010 .00900 .00720 .00240 .00230	PH1 .00080 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.83900 5.83720 5.83290 5.82510 5.81500 5.81680 .00000	ELV-18 = ELEVON = BETAU = DX	.000 .000 .000 .000 .000 .00230 00230 00210 .00100	CLN -00000 -00010 .00000 .00040 .00000	3.000 .600 .000 .000 .000 CSL 0019 0014 0014 0014
ALPHAO 10.508 10.485 10.493 10.514 10.516  ALPHAO	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300 DZ -2.315 .910 5.273 12.814 27.985 42.855 GRADIENT	T. XMRP YMRP ZMRP RUN NO MACH .59950 .60010 .59990 .59990 .60060 .00000 RUN NO	= .84 = 375.00 DX .86160 .64410 .34780 -17030 -1.20940 -2.28930 .00000	RN/L =  DY0224001560014700070000590 .00000	BETAO .01230 .01010 .08900 .00720 .00240 .00230 .00000	PH1 .00080 .00090 .00090 .00000 .00000 .00000	ALPHAN 5.83900 5.83720 5.83290 5.82510 5.81500 5.81680 .00000 RVAL = -1.4	ELV-18 = ELEVON = BETAU = DX	.000 .000 .000 .000 .000 .00200 00200 .00000	ELY-08 = HACH = PHI = DY =  CLN .0000000010 .00000 .00040 .00040 .00080	3.000 .600 .000 .000 .000 CSL 0014 0014 0014 .0000
ALPHAO 10.508 10.475 10.493 10.514 10.516  ALPHAO 14.834	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300 DZ -2.315 .910 5.273 12.814 27.985 42.855 GRADIENT	T. XHRP YHRP ZHRP RUN NO HACH .59950 .60010 .59990 .60060 .00000 RUN NO	= .84 = 375.00 DX .86160 .64410 .3478017030 -1.20940 -2.22930 .00000 0. 7207 0	RN/L =  DY022400156001470027000590 RN/L •	BETAO .01230 .01010 .00900 .00720 .00240 .00230 .00000	PH1 .00080 .00000 .00000 .00000 .00000 .00000	ALPHAH 5.83900 5.83720 5.83290 5.82510 5.81500 5.81680 .00000	ELV-18 = ELEVON = BETAU = DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =	.000 .000 .000 .000 .000 .0000 .0000 .0000 .0000 .0000 .0000 .0000	ELY-08 = HACH = PHI = DY =  CLN .0000000010 .00000 .00000 .00000 .00000 .00000	3.000 .600 .000 .000 .000 CSL 0014 0014 0016 .0000
ALPHAO 10.508 10.495 10.493 10.514 10.516  ALPHAO 14.834 14.809	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300 DZ -2.315 .910 5.273 12.814 27.985 42.855 GRADIENT	T. XHRP YHRP ZHRP RUN NO HACH .59950 .60010 .59990 .60060 .00000 RUN NO HACH .59990 .60070	= .64 = 375.00 DX .86160 .64410 .3478017030 -1.20940 -2.22930 .00000 DX .7207 0	RN/L =  DY0224001560014700127000590 .00000 RN/L •  DY01240	BETAO .01230 .01010 .08900 .00720 .00240 .00230 .00000 3.36 GRA	PH1 .00080 .00000 .00000 .00000 .00000 .00000 .00000 PH1 .00000	ALPHAN 5.83900 5.83720 5.83290 5.82510 5.81500 5.81680 .00000 RVAL = -1.4	ELV-1B = ELEVON = BETAU = DX	.000 .000 .000 .000 .003 0030 0030 00100 .00000	CLN .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	3.000 .600 .000 .000 .000 .000 0019 0011 0010 .0000
ALPHAO 10.508 10.495 10.493 10.514 10.516  ALPHAO 14.834 14.809 14.796	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300 DZ -2.315 .910 5.273 12.814 27.985 42.855 GRADIENT DZ .261 3.316 7.661	T. XMRP YMRP ZMRP RUN NO MACH .59950 .60050 .59990 .60060 RUN NO MACH .69990 .60070 .60060	64 - 375.00 DX .86160 .64410 .34780 -1.7030 -1.20940 -2.22930 .00000 DX -35440 -2.56180 -86160	RN/L =  DY0224001560014700059000590 RN/L •  DY012400130	BETAO .01230 .01010 .00900 .00720 .00240 .00230 .00000 3.36 GRA	PH1 .00080 .00000 .00000 .00000 .00000 .00000 .00000 PH1 .00800	ALPHAN 5.83900 5.83720 5.83290 5.82510 5.81500 5.81080 .00000 RVAL = -1.4	ELV-18 = ELEVON = BETAU = DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =	.000 .000 .000 .000 .000 0020 0020 00100 .00000	CLN .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	3.000 .500 .000 .000 .000 0019 0019 0019 .0000 CSL 0019 0016 0016
ALPHAO 10.508 10.485 10.493 10.516  ALPHAO 14.834 14.809 14.796 14.787	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300 DZ -2.315 .910 5.273 12.814 27.985 42.655 GRADIENT DZ .261 3.316 7.601	T. XMRP YMRP ZMRP RUN NO MACH .59950 .60010 .59990 .60060 .00000 RUN NO MACH .59990 .60070 .60060	84 - 375.00  DX .86160 .64410 .34780 -17030 -00000 0.7207 0  DX .86160 .64410 .34780 -1.7030 -1.20940 -2.2930 .00000 0.7207 0  DX55440 -2.56180 -1.38380	RN/L =  CY02240015600147000590 .00600  RN/L •  DY01240010300037000370	BETAO .01230 .01010 .00900 .00720 .00240 .00230 .00000 3.36 GRA BETAO .00660 .00610	PH1 .00080 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.83900 5.83720 5.83290 5.82510 5.81500 5.81080 .00000 RVAL = -1.4 ALPHAN 5.87110 5.86790 5.85940	ELV-1B = ELEVON = BETAU = DX	.000 .000 .000 .000 .000 0020 0020 .0000 CY 00210 0020 0020 0020	CLN .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	3.000 .600 .000 .000 .000 .0009 0019 0019 0010 .0000 CSL 0000 0010 0010 0010
ALPHAO 10.508 10.495 10.493 10.514 10.516  ALPHAO 14.834 14.809 14.796	90.0000 SQ.F 74.8100 IN. 36.6800 IN. .0300 DZ -2.315 .910 5.273 12.814 27.985 42.855 GRADIENT DZ .261 3.316 7.661	T. XMRP YMRP ZMRP RUN NO MACH .59950 .60050 .59990 .60060 RUN NO MACH .69990 .60070 .60060	64 - 375.00 DX .86160 .64410 .34780 -1.7030 -1.20940 -2.22930 .00000 DX -35440 -2.56180 -86160	RN/L =  CY0224001560014700127000590 .00000 RN/L •  DY012400103000970	BETAO .01230 .01010 .00900 .00720 .00230 .00000 3.36 GRA BETAO .00660 .00510 .00450 .00320	PH1 .00080 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	ALPHAN 5.83900 5.83290 5.83290 5.81500 5.81080 .00800 RVAL = -1.4 ALPHAN 5.87110 5.86790 5.85940 5.84680	ELV-18 = ELEVON = BETAU = DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =  DX =	.000 .000 .000 .000 .000 0020 0020 00100 .00000	CLN .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	3.000 .600 .000 .000 .000 CSL 0019 0019 0011 0014 .0000

CA28 747/1 01 SI

ORBITER DATA

(CGH148) ( 20 JAH 75 )

REFERENCE DATA		

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.X0 LREF = 474.8100 IN. YMRP = .0000 IN.YO BREF = 935.6800 IN. ZMRP = 375.0000 IN.ZO SCALE = .0300

ALPHAC =	4.000	BETAC =	.000
ELV-18 =	.000	ELV-08 =	3.000
ELEVIORI -	10.000	HACH .	. 600

PARAMETRIC DATA

ZHRP	= 375.0	1080 IN.ZO			į	ELEVON = BETAG = DX =	000.01 000. 008.	HACH = PHI = DY =	.000 .000 .000
RUN NO.	714/ 0	RN/L =	3.32 GRA	DIENT INTER	VAL = -1.08	/ 4.00			
CH NOOD	DX .91190	DY 01320	0AT38 03110.	PH1 .00000	ALPHAH 5.84170	BETA .00730	CY 00140	CLN 00070	CSL 0025

ALPHAO	ÐZ	MACH	uх	DΥ	BEIVO	rn:	ALTIUM	TH. LV	••	-	400
10.553	-1.753	.60000	.91190	01320	.01160	.09800	5.84170	.00730	00140	90070	08250
10.538	1.319	.59950	.70500	01080	.01060	.00000	5.84200	00080	00150	00060	00220
10.533	5.976	.59920	.39120	00710	.00880	.00000	5.83500	00143	00890	00070	00190
10.546	13.370	.59940	11340	00428	.00710	.00000	5.82500	00930	00099	00040	00170
10.559	28.434	.59990	-1.13730	00290	.00230	.00000	5.81690	.01370	00030	.00000	00130
10.566	43.399	.60040	-2.16030	.00340	.00160	.00000	5.80210	00170	.00020	08010	00170
10.505	GRADIENT	.00000	.00000	.00000	.00800	.00000	.00000	.00000	.00000	.00000	.00063
				•						•	

		RUN NO	0. 715/ 0	RN/L =	3.26 GR	ADIENT INTER	WAL = -1.0	9; 4.CD			
ALPHAO	DZ	MACH	DΧ	DY	BETAG	PHI	ALPHAH	BETA	CY	CLN	CST
14.836	.243	.60050	21980	.80160	.00640	.08080	5.07510	00800	.08040	00040	00380
14.814	3.412	.59950	43820	.09689	.00800	.08080	5.87140	00930	.00150	~,00090	00360
14.603	7.911	.60000	74500	.00770	.00520	.00000	5.66270	.00650	.00230	00110	~.00390
14.796	15.416	.60060	-1.25570	.01250	.08489	.03000	5.84880	00140	.00288	00120	00420
14.790	30.262	.68090	-2.27070	.01570	00090	.08080	5.82830	00970	.00240	00030	00320
14.791	45.331	59359	-3.30390	.01780	00250	.00000	5.81480	00190	.00270	00010 -	<b></b> 00∂60
171721	GRADIENT	00029	08892	.00164	00013	.00000	00117	00009	.60035	00016	<b>.00008</b>

IF AT DEC. 75 TABULATED SOURCE (

TABULATED SOURCE DATA - CA20

DATE OF DEC	75	TABULA	TED SOURCE L	1414 - FW	20						
			CARD	747/1	01 SI	OF	BITER DATA		(CGH147	) ( 20 JAN	175 )
		D474						1	ARAMETRIC	DATA	
	REFERENCE	DATA									
SREF = 26	90.0000 SQ.FT	. XHRP	= 1109.00	00 IN.XO				ALPHAC "		BETAC -	.000
	74.8100 IN.	YHRP		09 IN.YO				ELY-18 =		ELY-08 =	3.090 .300
	36.6800 IN.		= 375.00	00 IN.ZO				ELEVON -	• • • • • • •	HACH =	.000
SCALE =	.0300							BETAD =	.000	PH1 = DY =	.000
30466 -	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							DX =	.030	Dr -	.000
		RUN NO.	717/ G	RN/L =	1.89 GF	RADIENT INTER	VAL = -1.0	9/ 4.00			
						F144	ALPHAH	BETA	CY	CLN	CSL.
ALPHA0	DZ	MACH	DX	ĐY	BETAO	PH1 .00080	5.83780	01830	00150	08070	00280
10.141	-2.519	.29950	.81180	.00220	.00360	.00000	5.83750	01850	00080	00080	00250
10.136	.296	.29970	.61310	.00390	.00280	.00000	5.83370	01870	00080	00070	08230
10.135	4.872	.30050	.30110	.00390	.00280		5.82540	01890	00540	00040	00210
10.138	12.202	.29950	20310	.00500	00100. 01000.		5.81450	01120	OECCO.	.08010	00180
10.139	26.995	.29920	-1.21700	.00550	00030		5.80700	~.01130	.60130	00010	00210
10.142	42.221	.30030	-2.26320	.00710	.00000		.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.08000	.00000		••••				
			CA20	747/1	01 51	c	RBITER DATA		(CGN14	8) (50 W	H 75 I
			J/120	• • • • •							
	REFERENCE	DATA							PARAMETRIC	DYTY	
								ALPHAC =	4.000	BETAC *	.803
SREF = 20	90.0000 SQ.F	T. XMRP	* *	000 IN.XO				ELV-18 =	.000	ELV-08 =	3.000
LREF =	474.8100 IN.	YHRP		100 IN.YO				ELEVON =	10.000	MACH #	.700
OREF = !	936.6800 IN.	ZHRP	= 375.00	300 IN.ZO				BETAO =	.000	PHI =	.000
SCALE =	.0380							DX =	.080	DY =	.000
		RUN NO	. 716/ 0	RN/L =	3.54 (	RADIENT INTER	RVAL = -1.	00/ 4.00			
		44 <b>6</b> 11	DX	DY	OAT3B	PHI	ALPHAH	BETA	CY	CLN	CST.
ALPHAO	DZ	HACH .69950	1.00630	~.00650		00000.	5.84060	.00160	00070	00030	00230
10.694	-1.671 1.362	.69940	.80310	00020			5.84050	00650	08030	00020	00240
10.678	5.761	.69990	.50890	.00080			5.83300	.08040	.00010	00020	00220
10.669 10.672	13,248	.69970	.00210	.00210		00000.	5.82130	09760	00010	~.00010	00150
10.678	20.136	.69950	-1.01140	.00480		00000.	5.80840	01510	00040	.00020	.00020 25000
10.587	43.388	,70020	-2.04590	.08670	00150		_ 5.79430	00790	.00000	.00020	.0000 <b>0</b>
10.001	GRADIENT	.00000	.00800	.00000	.0000	00000.	.00000	.00000	.00000	.00000	.uuuuu

CA20 747/1 01 51

ORBITER DATA

(CON149) ( 20 JAN 75 )

PARAMETRIC DATA

REFER	CHICC	0.41	-
HEFFH	P NIL.	LA	

	HELEHENC	E DATA									
LREF .	690.0L 2 SQ. 474.8100 IN. 936.6800 IN. .0300	YHRP	• .0 • 375.0	0000 1N.XO 1800 1N.YO 1800 1N.ZO		GRADIENT INTER		ALPHAC = RUD-U = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = RUD-L = AILRON = PHI = BY =	000. 000. 000.01- 000.
		RUN NO.	722/0	RN/L =	3.33	CHADIENT INTER	TAL1.01	, ,,,,,,			
ALPHAO 10.503 10.467 10.482 10.481 10.494 10.501	DZ -2.010 1.016 5.470 12.919 28.155 42.900 GRADIENT	MACH .59960 .60000 .60000 .59940 .59980 .60050	0x .69090 .68680 .39369 -1.12140 -1.16420 -2.17720 .69000	DY .25100 .25740 .26120 .26800 .27880 .29710	BETA 086 090 093 090 107 110	50 .00088 50 .00090 70 .00000 10 .00000 60 .00000 30 .00000	ALPHAN 5.85820 5.85820 5.85130 5.84070 5.82880 5.82100	8ETA .01850 .01730 .01560 .00120 .01190 .00898 .00000	CY .04280 .04350 .64380 .04430 .04590 .04680 .00000	CLH .00180 .00180 .00210 .00250 .00310 .00300	CSL 05460 05340 05270 05210 05130 05140 .00000
		RUN NO	. 723/ 0	RN/L =	3.20	GRADIENT INTER	WAL1.0	07 4.00			
ALPHAO 14.792 14.789 14.769 14.755 14.753 14.748	DZ .127 2.855 7.573 15.007 30.023 45.058 GRADIENT	HACH .50030 .59940 .59960 .60020 .60080 .60010	EX 27480 46850 79580 -1.29780 -2.36950 -3.36330 07103	.24900 .25950 .26120 .26939 .28280 .28550	BETA 097 098 100 105 116 113 000	00000. 059 00000. 049 00000. 000 00000. 059 00000. 059	ALPHAM 5.89580 5.89230 5.87690 5.86090 5.84740 5.83310 00128	8ETA .J1450 .01270 .02520 .01260 .00450 .00650 00066	CY .03988 .04210 .04290 .04330 .04520 .04560	CLN .00910 .00690 .00650 .00780 .00690 .00700	CSL 04880 04800 04700 04510 04570 04580 .00029



DATE DI DEC 75

TABULATED SOURCE DATA - CA20

CARD 01 S2 S3

ORBITER DATA

(DONOD13 ( 28 JUN 75 )

PAGE 409

# REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1109.0000 IN.XO

LREF = 474.8100 IN. YMRP = .0000 IN.YO BREF = 930.6800 IN. ZMRP = 375.0000 IN.ZO

SCALE = .0300

# PARAMETRIC DATA

ELEVON = 5.000 A1LRON = .000 BETAO = -5.000 PHI = .000

RUN NO. 576/ 0 RN/L = 1.91 GRADIENT INTERVAL = .00/ 12.00

MACH	ALPHAO	Q(PSF)	PBI	PB2	P84	LHLS	RHLS	PCAV
.299	4.081	125,22060	13150	22170	1 270	17480	18180	13250
.299	6.115	125.22070	12240	21330	16460	16918	17440	13560
	6, 152	125.07500	10890	20420	17570	15940	16580	12690
.299	10.203	125.36630	09450	19770	16980	15270	15890	11930
.299		125.07460	07630	18540	15580	13980	[4480	10589
.299	12.243		04640	16010	13140	11420	12120	07980
.300	14.294	125.80350		13160	10260	08490	0956	05020
.300	16.335	125.94970	01710	12320	09450	07630	08920	64140
.299	17.236	125.07500	00690		08200.	.00361	.00380	.00228
	GRADIENT	.01436	.00611	.00397	.00200	*00201	. 50350	. 40420

# RUN NO. 577/ 0 RN/L = 2.81 GRADIENT INTERVAL = .00/ 12.00

HACH	ALPHAO	Q(PSF)	PBI	P82	PB4	LHLS	RHLS	PCAV
.481	4.186	293,67830	38720	43570	42960	42990	42490	38060
.480	6.247	293.13970	36040	41620	40603	40570	40200	35860
.480	6.336	292.86970	33080	38960	-,38170	38220	37710	33540
-489	10.417	292.46310	30460	36820	35959	36030	35480	31530
.480	12.496	292.59760	27050	33910	32850	32970	32450	28700
.479	14.585	292.05640	20440	<b>27</b> 490	26500	-,26500	26060	21920
.481	16.675	293.54200	15830	22630	21850	21860	21340	17520
.479	17.643	292.19150	14350	21140	20370	20520	19930	16270
	GRADIENT	18827	.01335	.01102	.01129	.01122	.01132	.01054

CAZO DI SZ S3 ORBITER DATA (DGNOGZ) ( 20 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

PCAY

-.15640

SREF	4	2690.0000	SQ.FT.	XHRP		1109.0000		ELEVO			5.000	AILRON		.000
LREF	=	474.8100	IN.	AH-SD	=	.0000	IN.YO	BETAC	)	-	.600	PHI	-	.000
BREF	=	936.6800	IN.	ZMRP	-	375.0000	IN.ZO							
SCALE	-	.0300												

GRADIENT INTERVAL - .00/ 12.00 RUN NO. 575/ 0 RN/L \* 1.89 RHLS LHLS Q(PSF) PBI P82 P84 HACH ALPHAD -.15510 -. 14810 4.060 125.5:340 -,16140 -. 15350 -.14120 .299 -.14170 +.14350 -.12240 -.15240 .308 6.109 125.95090

-.15320 -.13530 -.14000 8.127 125.80530 -.10700 -.14088 -.12770 -.12950 -.12120 .300 -.12560 -.11480 -.10640 -.09280 -.12710 -.11290 .299 10.162 125.36760 -.09670 -.10010 -.09360 -.11120 12.189 126.38780 -.07910 -.11730 .301 -.08560 -.08240 -.08010 -.09610 -.05430 -.10180 14.240 125.22150 .299 -.07010 -.06460 -.08040 -.06720 -.04950 -.08560 16.274 125.51330 .299 -.07220 -.05920 -.05860 -.07780 -.05200 17.052 125.65910 -.04040 .300 .00685 .00667 .00790 .00567 .00558 .00664 GRADIENT -.02850

CA20 01 52 53 ORBITER DATA (DGN003) ( 20 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2590.0000 SQ.FT. XHAP = 1109.0000 IN.XO

LREF = 474.8100 IN. YHAP = .0000 IN.YO

BREF = 936.6800 IN. ZHAP = 375.0000 IN.ZO

SCALE = .0300

RUN NO. 572/ D RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00

	ALPHAO	Q(PSF)	PB1	282	PR4	LHLS	RHLS	PCAV
HACH	ALPHAU							- E03+B
.601	089	421.01010	53340	49340	51370	52080	50960	50740
.599	4.257	419.65190	-,43150	42470	44510	45370	<b></b> 44360	43890
.600	4.613	421.01800	44970	42470	42960	44080	42810	41700
.699	5.242	419.77250	39220	41040	41550	42560	41470	40310
.600	6.343	420.39910	~.39110	3B120	40000	40790	39850	38870
.601	8.514	421.14230	34040	32220	34178	34990	34000	33090
.599	10.610	419.52380	30510	27940	30110	31020	30090	29010
• 4 7 7	CRADIENT	02312	.02105	.02410	.02232	.02250	.02219	.02250

```
PAGE 411
DATE OF DEC 75
                           TABULATED SOURCE DATA - CA20
                                                                                                       (DGN004) ( 20 JAK 75 )
                                                                           ORBITER DATA
                                       CARD
                                                      01 52 53
                                                                                                   PARAMETRIC DATA
              REFERENCE DATA
                                                                                         ELEVON =
                                                                                                              AILRON =
                                                                                                                             .000
                                                                                                      5.000
                            XHPP
                                    1109.000B IN.XO
        2690.0000 SQ.FT.
                                                                                         BETAO =
                                                                                                        .000
                                                                                                              PHI
                                                                                                                             .800
                                         .0000 IN.YO
                            YHRP
         474.8100 IN.
                            ZMRP =
                                      375.0000 IN.ZO
BREF =
         936.6800 IN.
             .0300
SCALE =
                                                      3.26
                                                              GRADIENT INTERVAL =
                                                                                     .00/ 12.00
                          RUN NO. 574/ 0
                                             RN/L =
                                                                                                          PCAY
                                       Q(PSF)
                                                  P81
                                                             685
                                                                        PB4
                                                                                   LHLS
                                                                                               RHLS
                  HACH
                            ALPHAO
                                                                                                         -.45910
                             4.223 421.09510
                                                 -.45320
                                                            -.43180
                                                                        -.45250
                                                                                   -.46470
                                                                                              -.45040
                   .601
                                                            -.40070
                                                                        -.40230
                                                                                   -.41690
                                                                                              -.39930
                                                                                                         -.39380
                                                 -.37860
                             6.337 421.46490
                   .601
                                                                                              -.34880
                                                                                                         -.34160
                                                            -.34940
                                                                        -.35210
                                                                                   -.35970
                             8.463 421.47120
                                                 -.32510
                   .601
                                                                                              -.30900
                                                                                                         -.29890
                            10.562 421.34220
                                                 -.26870
                                                            -.30600
                                                                        -.31080
                                                                                   -.31870
                   .601
                                                 -.24770
                                                            -.25610
                                                                        -.27240
                                                                                   -,28030
                                                                                              -.27070
                                                                                                         -.27250
                            12.700 419.72320
                   .599
                                                                                   -.24000
                                                                                              -.22830
                                                                                                         -.23740
                                                 -.20500
                                                            -.21910
                                                                        -.23330
                   .601
                            14.797 421.09510
                                                            -.15470
                                                                        -.17640
                                                                                   -. 18440
                                                                                              -.17030
                                                                                                         -.17848
                            16.872 420.59770
                                                 -.14920
                   .600
                                                                                              -. 14680
                                                                                                         -. 15450
                                                                        -.15430
                                                                                   -.16000
                            17.711 419.72470
                                                 -.12410
                                                            -.14130
                   .599
                                                   .02071
                                                              .02028
                                                                         .02248
                                                                                    .02314
                                                                                               .02246
                                                                                                          .02521
                          GRADIENT
                                       .03544
                                       CAZO
                                                      02 52 53
                                                                            ORBITER DATA
                                                                                                        (DGN005)
                                                                                                                ( 20 JAN 75 )
                                                                                                   PARAMETRIC DATA
              REFERENCE DATA
                                                                                         ELEVON =
                                                                                                      5.000
                                                                                                              AILRON -
                                                                                                                             .008
                            XMRP =
                                     1109.0000 IN.XO
SREF =
        2690.0000 SQ.FT.
                                                                                                                             .000
                                                                                         BETAD -
                                                                                                     -5.000
                                                                                                              PHI
                            YMRP
                                          .0000 IN.YO
          474.8100 IN.
                                      375.0000 IN.ZO
                            ZMRP =
          936.6800 IN.
BREF =
SCALE =
             .0390
                                                              GRADIENT INTERVAL =
                                                                                      .00/ 12.00
                          RUN NO. 578/ 0
                                             RN/L = 2.87
                                                  PB1
                                                                                    LHLS
                                                                                               RHLS
                                                                                                          PCAY
                                                             PB2
                                                                         PB4
                  HACH
                            ALPHAO
                                       Q(PSF)
                                                                                   -.34870
                                                                                              -.34740
                                                                                                         -.34150
                             4.174 291.63840
                                                 -.44870
                                                             -.53030
                                                                        -.51310
                   .479
                                                                                              -.31780
                                                                                                         -.32720
                             6.255 292,44810
                                                 -.45090
                                                             -.55110
                                                                        -.51600
                                                                                   -.32000
                   .480
                                                                                   -.29250
                                                                                              -.28950
                                                                                                         -.29580
                                                                        -,52630
```

+.54780

-.55430

-.55820

-.56470

-.59650

-.61070

-.00330

~,53920

-.53590

-.53890

-.57140

-.58170

-.00411

-.25790

-.21880

-.17910

-.15620

-.13740

.01425

-.26010

**-.21980** 

-.18200

-. 15750

-.13800

.01408

-.26390

-.21980

-.17960

~.15260

-.13500

.01271

8.346 292.71950

10.422 292.71830

12.509 292.04200

14.604 292.98720

16.697 292.17780

17.586 292.17720

. 16855

GRADIENT

.480

.480

.479

.489

.479

.479

-.45320

-.45720

-.45720

-.46060

-,48680

-.49BBD

-,00133

CA20 02 52 53

CRBITER DATA

(DGN006) ( 20 JAN 75 )

		从下入

PARAMETRIC DATA

SREF	=	2690.0080 SQ.FT.	XMRP	=	1109.0000	IN.XO	ELEVON =	5.000	ATLRON	-	.000
LREF	-	474.8100 IN.	YHRP	-	.0000	IN.YO	EETAO =	.000	PHI	=	.000
BREF	-	936.6800 IN.	ZHRP	•	375.0000	IN.ZO					

SCALE = .030D

RUN NO. 580/ 0 RN/L = 2.85 GRADIENT INTERVAL = .00/
-----------------------------------------------------

HACH	ALFHAO	QCPSF1	PBI	P82	PB4	LHLS	RHLS	PCAY
.480	4.158	292.59320	43610	50110	50720	28880	28280	27070
.480	6.223	293.12360	42080	48820	49160	26250	25450	24300
.481	8.306	293.52750	41050	48300	48350	22960	22290	21040
.480	10.404	292.31290	41220	48628	49020	19660	18850	17770
.480	12.487	293.12230	42360	50500	50720	16490	15490	14510
.480	14.551	292.99850	44870	53030	53678	12950	11720	11180
.479	16.629	291.63900	48850	57510	59510	09400	08820	07980
.480	17.347	292.44870	50 <b>7</b> 30	59390	60B30	08550	07883	07220
	GRADIENT	02021	.00393	.00239	.00283	.01487	.01511	.01457

# RUN NO. 579/ 0 RN/L = 3.36 GRADIENT INTERVAL = .00/ 12.00

HACH	ALPHAO	Q(PSF)	PBl	P82	P84	LHLS	RHLS	PCAY
.599	4.252	418.77280	65530	+.69560	70500	39020	37170	37990
.599	6.355	418.77130	61660	70210	69210	32790	31110	33980
.599	8.455	418.77130	60750	69110	66510	27840	25850	28830
.600	10.572	419.27010	-,62290	70600	69280	23570	21340	23960
.600	12.711	419.64220	65880	73200	71680	18870	16290	18780
.609	14.811	419.51870	719!0	78450	77880	15630	12990	15450
.600	16.885	419.88940	81480	88430	68510	10750	09290	10930
.599	17.522	419.01690	84720	92640	92500	08790	07699	08920
	GRADIENT	.07094	.00584	00098	.00396	.02435	.02504	.02257

•

. .

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

21.153 422.98760

GRADIENT -.01190

.600

PAGE 413

.000

.000

(DGN007) ( 20 JAN 75 )

PARAME	701	ית ה	T.
FARAGE		o un	

			CARO	OI SI		ORBITER	DATA		(DGN897)	( 20 .
	REFERENCE DA	1 TA						PA	RAMETRIC DATA	
	nerenciace D	310								
SREF = 269	0.0000 SQ.FT.	XHRP -	1109.0008	IN.XO			EL	EYON *	5.000 ALLR	ON =
	4.8100 IN.	YHRP *	.0000	IN.YO			98	TAO = -	-5.000 PH1	-
BREF = 93	6.6:00 IN.	2HRP =	375.0000	IN.ZO						
SCALE =	.0308									
		RUN NO.	603/ O R	N/L = 2.00	GRADIENT	INTERVAL =	.007	12.00		
	насн	ALPHAO	Q(PSF)	PBi	P82	PB4	LHLS	RHLS	PCAV	
	.300	4.045	126.54920	08930	12190	07000	05410	08690	03890	
	.299	6.083	125.96630	09670	13870	08370	06840	09090	04330	
	.299	0.123	126.11250	10400	14390	08650	07750	09900	05210	
	.300	10.174	126,54970	14170	17830	12410	11480	13470	08670	
	.300	12.220	126.54960	12770	16210	11100	09950	12190	07220	
	.299	14.238	126.25780	12110	15820	12470	09520	11710	-,06590	
	.300	16,301	126.54970	13140	16990	12070	10620	12660	07470	
	.301	18.356	127.42390	14030	17380	12640	11540	13600	08600	
	.299	20.373	126.11200	14620	17440	13320	12210	14270	-,09480	
		GRADIENT	.00738	80810	00854	00809	00790	00742	00746	
		RUN NO.	604/ C R	N/L = 3,41	GRADIENT	INTERVAL =	.60/	12.00		
	HACH	ALPHAO	Q(PSF)	PBI	P82	PB4	LHLS	RHLS	PCAV	
	.608	4.178	423.48480	24660	25220	23000	-,23750	24440	20800	
	.600	6.295	423.61630	28500	32160	24430	25830	27330	22730	
	.60t	8.427	424.11040	38310	41300	31370	36270	37100	33030	
	.600	10.623	423.24160	43840	45510	-,38040	41030	41880	37560	
	.601	12.689	423.98610	34990	37410		33150	34400	29450	
	.601	14.810	423.86490	37350	39350		35720	36839	32030	
	.599	15.845	422.24470	41860	43240		40300	41540	36800	
	.601	16.884	423.86340	45620	45840		44570	45710	41200	
	.601	19.013	424.10410	57140	57310	53590	56660	57630	51440	

-.65420

-.0325B

-.64670

-.03025

-.59330

-.02429

-.64900

-.02902

-.64970

-.02893

-.59470

-.02851

SCALE =

CA20

01 SI

ORBITER DATA ..

(DONOUS) ( 20 JAN 75 )

DCC		ENCE	. DA	T
115.7	En		. עת	

.0300

# PARAHETRIC DATA

SREF	=	2690.0000 SQ.FT.	XMAD	#	1109.0800	IN.XO	ELEYON =	.000	AILRON	l =	.000
LREF	=	474.8100 IN.	YHRP	=	.0000 1	IN.YO	BETAO =	.000	PH1	=	.000
BREF		936.68DD IN.	ZHRP	-	375.0000 1	IN. ZO					

GRADIENT INTERVAL = .007-12.00

HACH	ALPHAO	Q(PSF)	PB1	P92	P84	LHLS	RHLS	PCAV
.601	4.284	423.96270	11440	12960	11500	11970	12390	09230
.600	6.291	423.59130	15350	18540	14630	15390	15420	12240
.600	8.408	423.46780	16980	19770	16230	17100	16900	13560
.500	10.522	422.84840	18530	21130	17650	19680	18380	14880
.599	12.651	422.59380	21480	23860	20840	21920	21540	18150
.599	14.756	422.34520	22000	24180	21520	22530	22220	18960
.599	16.848	422.47770	22740	~.24570	22320	23380	23020	19650
.600	18.960	423.71730	26210	27740	26130	27110	26660	23300
.600	21.090	423.72040	23620	24630	23970	24790	24300	20910
	GRADIENT	16454	01086	01220	00951	01036	00922	00866

CARD 01 51 ORBITER DATA (DCH009) ( 20 JAH 75 )

# REFERENCE DATA

# PARAMETRIC DATA

SREF	=	2690.0000 SQ.FT.	XHRP		1109.0000 1	N.XO	ELEVON =	5.000	AILROH =	-10.000
LREF	=	474.8100 IN.	YHRP	•	.0800 1	N.YO	DETAO	.000	PH1 =	.000
GREF	=	936.6800 IN.	ZHRP	•	375.0000 1	N.ZO				

SCALE = .0300

#### GRADIENT INTERVAL = .00/ 12.00 3.26

MACH	ALPHAO	Q(PSF)	PB1	PB2	PB4	LHLS	RHLS	PCAY
.601	4.208	423.85550	19560	20360	21180	20090	20330	17900
.600	6,333	423.11090	21780	24050	-,24480	21740	22290	19410
.691	8.429	424.10410	25250	27170	25680	25340	25990	22800
.699	10.544	422.61220	26280	28010	26020	26320	27000	23800
.601	12.646	423,86020	28280	29936	-,25190	28570	~.29150	26130
.600	14.760	423.35970	30340	315.0	29100	30770	~.31240	28510
.600	16.873	423.35810	31820	32740	28980	32240	32660	30020
.601	18.967	423.85230	34260	34560	33760	34920	35080	32600
.600	21.110	423.61470	34700	35080	35530	35720	35750	32910
	GRADIENT	13007	01119	01235	00745	01055	01123	00999

DATE DI DEC 75

TABULATED SOURCE DATA ~ CA20

16.858 424.08230

18.972 422.83640

21.105 423.83530

.12466

GRADIENT

OI SI ORBITER DATA

(DONO10) (20 JUN 75 )

PAGE 415

.000

REFERENCE DATA

.601

.600

.601

### PARAMETRIC DATA

SREF = LREF = BREF = SCALE =	936.6800	IN.	YHRP	00	00 IN.XO 00 IN.YO 00 IN.ZO				EVON = ETAG =	5.000 .000	AILRI PHI
	•		RUN NO.	815/ 0	RN/L =	1.92 GRADIEN	INTERVAL	00/	15.00		
	,	HACH	ALPHAO	Q(PSF	) PB1	P82	P84	LHLS	RHLS	PC	AY .
		.299	4.061	126.2497	0049	6007000	00740	02080	04040	.01	0820
		.299	6.090	125.9581	0059	8009210	03300	04330	06190	0	1630
		.299	8.121	126.1042	0061	3009140	03470	04580	06260	0	1700
		.299	10.153	126.2499	0659	8908690	03250	04469	06060	0	1440
		.299	12.193	125.2498	0087	1011410	05920	07140	08750	01	4020
		.300	14.219	128.6871	0086	40!1340	05920	07080	08680	03	3960
		.300	16.263	128.5415	0079	70 -,10630	05120	06410	08010	0	3330
		.300	18.293	126.5415	0076	8010500	04900	06230	07810	0	3080
		.300	20.317	126.9788	0075	3009850	04610	05980	07610	0	2950
			GRADIENT	.0072	4002	9100246	00379	00364	00302	0	0337
			RUN NO.	616/ 0	RN/L =	3.25 GRADIEN	NT INTERVAL	00/	12.00		
	1	HACH	ALPHAO	Q(PSF	) PBI	P82	P84	LHLS	RHLS	PC	AV.
		.660	4.211	423.5803	B141	7015230	16420	14840	15810	10	0930
		.599	6.315	422.4628	D181	6020550	15430	18970	10380	13	3690
		.600	8.424	423.5935	0200	9022430	19020	20090	20330	<b>~.</b> }!	5450
		.601	10.546	424.0823	0226	6024960	18620	~.22710	22960	1	7980
		.600	12.674	423.5851	0235	5025930	18560	23750	24030	+. I!	9030
		.599	14.748	422.0920	0235	5025480	18850	23750	23970	19	9150

-.24430

-.27170

-.20350

-.01297

-.25860

-.28390

-.29490 -.01471 -.20510

-,24140

-.28410 -.01334 -,25030

-.27900

-.29370

-.01214

-.25040

-.27800

-.29350

-.01222

-.20478

-.23170

-.24689

-.01974

CAZO OLSI ORBITER DATA (DGNOLL) (20 JAN 75 )

REFERENCE DATA PARAHETRIC DATA

BREF = 938.6800 IN. ZMRP = 375.0000 IN.ZO SCALE = .0300

RUN NO. 612/ 0 RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00

LHLS RHLS PCAY HACH ALPHAO. Q(PSF) PB1 P82 P84 -.16540 -.16450 -.17710 -.17100 -.15140 .600 4.238 423.49350 ~.18150 8.342 422.74639 -.28010 -.22690 -.18900 -.20270 -.20278 -. 17330 .599 .600 8.451 422.87430 -.22740 -.25550 -. 19930 -.23320 -.23090 -.19970 -.22090 -.21350 10.597 422.75080 -.24220 -.26910 -.24910 -.24580 .599 12.718 424.11830 -.25180 -,27820 -.24080 -.26070 -.25650 -.22610 .601 19.781 422.62720 -.27830 -.30280 -.26480 -.20760 -.28410 -.25560 .599 -.29980 -.32290 -.27270 -.30890 -.30500 -.27570 .601 16.872 424.24250 -.30100 -.27200 .599 18.996 422.37710 -.29530 -.31640 -.29840 -.30650 -.32030 .600 21.148 423.62108 -.30340 -.31320 -.31690 -.31110 -.28200 -.09890 -.01215 -.00847 -.01163 -.01191 -.01003 GRADIENT -.01374

CA29 01 SI ORBITER DATA (DGND[2) 1 20 JAN 75 1

.00/ 12.00

.00137

10500.

.00150

REFERENCE DATA PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO ELEVON = 5.000 ALLRON = .000

LREF = 474.8100 IN. YHRP = .0000 IN.YO ALPHAO = 10.000 BETAO = -5.000

GRADIENT INTERVAL =

.00128

BREF = 936.6800 IN. ZHRP = 375.8800 IN.20 PHI = .000 SCALE = .0300

RN/L = 3.33

.00134

.02573

RUN NO. 605/ 0

GRADIENT

----

PCAY HACH DZ QUPSEX PBI **PB3** P84 LHLS RHLS -.42480 -.45560 -.44770 -.43330 .600 1.169 423.24940 -.45250 -.44740 5.634 423.61630 -.43850 -.43830 -.40080 -.43418 -.43290 -.41010 .600 -.41450 .600 10.389 423.49190 -.44000 -.43830 -.41280 -.43660 -.43490 -.44000 -.43700 -.41680 -.43720 -.43560 -.41700 25.346 423.37230 .600 -.43350 -.43090 ~.41450 40.230 424.24100 -.43630 -.43050 -.39520 .601 .691 47.384 423.86810 -.45700 -.45060 -.41850 -.45490 -.45180 -.43770

.00098

PAGE 417

DATE D1	DEC 75	TABULATED	SOURCE DAT	A - CA20				· ·		•	PAUS 111
			CYSD	01 SI		ORBITER	DATA		10090131	( 20	JAN 75 1
•	REFERENCE DA	ATA .						PAR	AHETRIC DI	ATA	
SREF =	2690.0000 SQ.FT.	XMRP =	1109.0000	IN.XO						LRON =	.000 -5.000
REF =	474.8100 IN.	YHRP =	.0800	IN.YO						= OAT	-2.000
BREF =	936.6800 IN.	ZHRP =	375.0000	IN.ZO			Pl	1] =	.000		
CALE =	.0300										
		RUN NO. (	506/0 RA	//E <b>= 3.3</b> 0	GRADIENT	INTERVAL =	.60/	12.00			
	HACH	DŽ	Q(PSF)	PB1	P82	P84	LHL5	RHLS	PCAV	_	
	.600		423.38010	36910	•		37550	37030	-,3655		
	.599	29.470	422.50390	37580	35790	• •	37920	37500	-,3643		
	.599	37.617	422.38030	37720	36180		38100	37840	3674		
	.600	49.699	423.00110	37280	35980	36990	37730		3649		
	.599	64.081	422.63050	37500	-,36760	•	37790		3661		
	.600	71.262	423.50760	38610	37670	37750	38770		3768		
		GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.0000	U	
			CA20	01 SI		ORBITE	R DATA		(DGH0141	( 20	JJH 75 1
								PA	RAMETRIC D	ATA	
	REFERENCE D	AIA									
SREF =	2690.0000 SQ.FT.	XINRP *					_	LEVON = LPHAO =		ILRON • HI •	900.00 <del>-</del>
LREF =	474.8100 IN.	YMRP =		IN.YO			•	CLUVO -	1.500 .	•••	
BREF =	936.6800 IN.	ZMRP =	375.0000	IN.ZO							
SCALE =	.0300										
		RUN NO.	617/ 0 R	N/L = 3.29	GRADIENT	INTERVAL =	-5.00/	5.00			
	HACH	BETAO	Q(PSF)	P81	P82	PB4	LHLS	RHLS	PCAV		
	.601	-15.806	423.56140	27020	27100	28010	27290	27600			
	.600	-10.549	422.94290	29600	31370	29890	29160	30360			
	.600	-7.913		29820	31960	-,29950	29310				
	.601	-5.2B1		37720	40450	-,35540	-,37300				
	.601	-2.654		29230	32090	27160	28570				
	.600	011		21700	23080	22430	2137				
	.601	2.618		32110	35430	29610	3144				
		GRADIENT	00972	08543	00820	00463	0054	200329	+.003	20	

CA20 02 S1 ORBITER DATA (DGND15) ( 20 JAN 75 2

REFERENCE DATA

PARAMETRIC BATA

		**** COOR IN YO	ELEVON =	5.000	AILRON =	.000
SREF * 2690.0000 SQ.FT.	XPYU =	1109.0000 14.70	BETAO =	-5 000	PHI =	.000
OCC - NOW BIRD IN.	YMRP *	.0000 IN.YO	DEIKO -	-3.000	• • • • •	

BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO SCALE = .0300

RUN NO. 607/ 0 RN/L = 3.38 GRADIENT INTERVAL = .00/ 12.00

HACH .599 .599 .600 .600 .601	ALPHAO 4.229 6.328 8.462 10.691 12.706 14.833 16.936	0(PSF) 422.23130 422.35080 422.73450 422.73450 423.60520 423.85230 423.36130	P8178470761107500073750747807715081570	P82 78970 76510 76890 75530 77220 79100 82990	P84 77100 74700 74530 72710 71800 73220 76360	LHLS091601239023020225302125024000	RHLS 11310 13400 22890 23500 21880 24840 34400	PCAV 05910 10490 20790 20330 18590 21540 31590
.601			• • • • • •			•		

CARD OR SI ORBITER DATA (DGNOIG) ( 20 JAN 75 )

REFERENCE DATA

### PARAMETRIC DATA

SREF		2690.0000 SQ.FT.	XMRP	-	1109.0000	IN.XO	ELEYON BETAD		.000	AILRON PHI	<b>=</b>	800.
		474.8100 IN.	YHRP	=	.0000	IN.YO	DEIRO	-	.004	1441	-	
BREF	-	936.6800 IN.	ZMRP	-	375.0000	1H.ZO						

SCALE - .0300

RUN NO. 609/ 0 RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00

насн .599	ALPHA0 4.212	Q(PSF) 422.91030	PB1 67480	PB2 65100	P84 64230	LHLS +.10440	##LS 10640 11990	PCAY 09110 10110
.600 .600	8.318 8.418	423.53260 423.16340	64820 63120	64190 61990	62000 61890	11660 13430	13940	11810
.600	10.540	423.65970	64970	64510 66850	60470 62060	15940 16730	16430 16900	14260 14820
.600 .601	12.677 14.777	423.53410 424.28360	69150 75160	73070	67360	18930	18580	16830
.600	16.898 18.990	423.91370 423.90740	83280 96720	80200 93370	76180 83980	20700 24850	20400 24710	18720 22920
.600	21.120 GRADIENT	424.16240 .08907	-1.05650 .00437	-1.01990 .00187	93260 00540	27840 00867	27740 00917	25940 00814

DATE 01 DEC 75

TABULATED SOURCE DATA - CA20
CA20
OX

OZ SI CRBITER DATA

(DGN017) ( 20 JAN 75 )

PAGE 419

REFERENCE D	ATA						PAF	RAHETRIC DAT	A
SREF = 2690.0000 SQ.FT. LREF = 474.9100 IN. BREF = 936.6800 IN. SCALE = .0300	XMRP = YMRP = ZMRP =	.0000	IN.YO				EVON # CTAO #	5.000 A1L .000 PHI	RON = -10.006 = .000
	RUN NO.	610/ O R	Y/L = 3.29	GRADIENT	INTERVAL =	.007	12.00	•	
MACH .600 .600 .600 .600 .600 .600	ALPHAO 4.228 6.329 8.429 10.561 12.668 14.791 16.883 18.999 21.118 GRADIENT	Q(PSF) 423.26900 423.64300 423.76890 423.89640 423.77200 423.52640 423.64770 424.39060 424.39370 .09511	P8172500699206998069920741308040090290 -1.01660 -1.12440 .00415	P827210071590704907119074370779408682097320 -1.07440 .00181	P84 65380 63660 63490 64620 68440 72680 80800 90470 99930 00112	LHLS09520106801325015200174601917022470256403144000930	RH_S10570125501481016560183902009023160262603185000973	PCAV 08100 09360 11680 13440 15390 17270 20600 23740 29770 00969	
		CYSO	02 9	ii	ORBITE	R DATA		(DGN018)	1 20 JAN 75 I
REFERENCE D	ATA						PAF	RAHETRIC DAT	A

SREF LREF BREF SCALE	=	2690.0000 474.9100 936.6800 .0300	IN.	YHRP	-	1109.0000 .0000 375.0000	IN.YO					ELEVON BETAO		5.000 .000	AILRON PHI	.800
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		RUN NO.	60	08/ Q RI	N/L =	3.26	GRADIENT I	INTERVAL	<b>-</b> .	00/ 12.0	0			

HACH	ALPHAO	Q(PSF)	PB;	P82	P84	LHLS	RHLS	PCAY
.600	4,223	423.91840	75000	71510	71590	15208	15150	14630
.600	6.340	424,15770	69540	69370	67530	13920	15080	11740
.599	8.436	422.01660	+.70870	69370	66620	20150	20270	18840
.600	10.556	424.16400	71020	69110	-,67020	20890	21070	19590
.600	12.678	423.41980	73900	71380	69330	21250	21410	20030
.600	14.781	423.54630	80250	76570	73110	22710	22760	21540
.601	:5.897	424.78870	90800	86100	81190	25460	25459	24300
.600	19.006	424.16560	-,99070	-,95180	90530	24970	24840	23930
.600	21.118	424.04430	-1.10960	-1.05740	97480	30040	30090	29080
	GRADIENT	02337	.00505	.00342	.00708	01101	01087	01040

.000

.000

(DGN0(9) ( 30 JUL 75 )

PARAMETRIC DATA

.000

ELEVON =

BETAD \*

10.000 AILRON =

PHI

ORBITER DATA 02 SI CA20

#### REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO .0000 IN.YO YMRP = LREF = 474.8100 IN.

936.6900 IN. .0300 SCALE =

ZMRP - 375.0000 IN.20

.00/ 12.00 GRADIENT INTERVAL -RN/L = 3.26 RUN NO. 511/ 0

MACH	AL PHAD	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAY
.599	4.246	422.50070	78560	75410	72650	16120	16900	14260
.599	6.328	422.50220	75600	74690	71450	18620	19190	16200
.599	B.470	422.62420	74720	73720	70320	21550	-,22350	18970
.609	10.593	423.62250	76270	75150	-,71910	-,24240	25320	21670
.600	12.694	422.99940	78560	-,76900	73050	24790	25720	22110
.599	14.800	422.50220	84460	81830	77610	25640	26390	23110
.600	16.894	423.25240	96350	92590	84500	58510	29090	25750
.601	19.022	423.99560	-1.07940	-1.04190	94740	~.29060	29960	26630
.601	21.151	424.24730	-1.18200	-1.12880	-1.00103	30340	31240	27820
	GRADIENT	.16506	.00365	.00083	.00158	01290	01344	01182

CYSO

03 52

ORBITER DATA

(DGH020) ( 20 JAN 75 )

### REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO AHAS = LREF = 474.8100 IN. ZHRP = 375.0000 IN.ZO 936.6800 IN.

ODEO. SCALE =

.0000 IN.YO

BREF =

### PARAHETRIC DATA

AILRON = .000 5.000 ELEVON = .008 -5.000 PHI = BETAO = RUODER = .000

#### GRADIENT INTERVAL = .00/ 12.00 RN/L = 1.92 RUN NO. 597/ 0

PCAY 17460
- 17450
16770
15640
14190
12750
11120
09360
08420
07600
06590
.00466

PAGE 421 TABULATED SOURCE DATA - CA20 DATE OF DEC 75 ( 20 JAN 75 1 ORBITER DATA (DCH020) CARD 03 S2 PARAMETRIC DATA REFERENCE DATA .000 ELEVON = 5.000 AILRON = XHRP - 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. .000 -5.000 PHI BETAO = .0000 IN.YO 474.8100 IN. YHRP -LREF RUDDER = .080 2HRP = 375,0000 IN.ZO BREF = 936.6800 IN. .0300 SCALE = GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.30 RUN NO. 595/ 0 LHVERT RHVERT PCAY Q(PSF) PB1 **589** P84 **ALPHAO** HACH -.66010 -.90180 -.66070 -2.76630 .08420 .035 421.64720 -.65440 .599 -2.83180 .11220 -.86520 -.61300 4.232 422.76460 -.60900 -.60940 .600 .15220 -.81740 -.54640 6.365 423.13920 -2.84200 -.54330 -.54850 .601 -,49360 .18090 ~,77380 8.467 422.52070 -.49020 -.49600 -2.84728 .600 ~.42890 10.623 421.69280 -.42820 -.43370 -2.81760 .223B0 -.73020 .600 -,37500 -2.73670 .25730 -.67810 -.35990 12,737 422.14590 -.36990 .600 .25850 -.61970 -.33410 -2.54830 14.875 421.52060 -.33440 -.34040 .599 -.56910 -.28010 -2.47030 .27700 16.957 421.27050 -.28500 -.28920 .599 ~.25000 -.26060 .29310 -.53530 -.25690 -2.42250 17.897 421.51910 .599 .02216 .02264 .02168 -.00549 .01324 .01657 GRADIENT .03117 (DGN021) [ 29 JAN 75 ] ORBITER DATA CAZO O3 S2 PARAMETRIC DATA REFERENCE DATA ELEVON = 5.000 AILRON = .000 XHRP = 1109.0000 IN.XO 2690.0000 SQ.FT. .000 .008 BETAO \* PHI .0000 IN.YO LREF = 474.8100 IN. YHRP = .000 RUDDER = ZMRP = 375.0000 1N.ZO BREF = 936.6880 IN. SCALE = .0300 RUN NO. 592/ 0 RN/L = 1.93 GRADIENT INTERVAL = .00/ 12.00 LHVERT RHVERT PCAV MACH **ALPHAO** Q(PSF) P81 P82 PB4

-.11120 -.18610 -.09600 -.11940 -.08160 6.127 126.25070 -.16240 .300 -.09610 -.07120 -.10800 -.07030 -.14910 -.17180 8.218 125.95930 .299 -.09850 -.05770 -.08230 -.15880 -.04500 10.249 126.54240 -.13580 .300 -.06970 -.12330 -. 14520 -.02850 +.09010 -.04780 126.68910 .300 12.161 -.04010 -.08150 -.02160 -.08480 -.13910 126.97970 -. 11220 .301 13.240 -.07820 -.03380 -.05210 -.00800 14.289 126.39669 -.10410 -.12900 .300 -.04330 -.12120 .00230 -,06980 -.02889 (26.25050 -.09740 15.234 .300 -.02040 -.03330 .01250 ~.06210 -.08960 -.11150 16.234 126.54220 .300 -.05370 -.01270 -.02450 -.10110 .02330 .299 17.171 125.81300 -.08190 .00701 **GRADIENT** .80545 .00662 .00993 .08507 .00580 .06972

----

SCALE =

03 52 CYSS

.07526

GRADIENT

.02159

ORBITER DATA

.01751

.02602

.01704

.02227

(DGN0211 4 20 JAN 75 1

PARAMETRIC DATA

### REFERENCE DATA

#### 5.000 AILRON = .000 ELEVON = SREF = 2590.0000 SQ.FT. XMRP = 1109.0000 IN.XO .000 BETAD = .000 PHI = .0000 IN.YO YHRP = LREF = 474.8100 IN. BREF # 936.680

36.6800 IN. .0300	ZHRP	375.0000	IN.ZO			R	DOER =	.000
	RUN NO.	593/ 0 R	N/L = 2.95	GRADIENT	INTERVAL =	.00/	12.00	
HACH	ALPHA0	Q(PSF)	PBI	P82	PB4	LHYERT	RHYERT	PCAY
.500	.021	315.51970	44070	45060	29830	41480	26170	39000
.500	6.288	315.38310	36100	-,37730	21350	33900	20470	30775
.501	8.345	315.78540	32410	33580	17020	31220	17800	26690
.500	10.377	315.51740	28640	29760	13660	28350	14630	22990
.499	11.441	314.18100	27390	20330	10530	27990	13370	21540
.591	12.561	316.18530	25250	26130	09200	26620	11610	19220
.499	13.630	314.71710	23030	23990	06090	+.25010	09710	17080
.500	14.666	315.51820	20890	21980	03530	23400	08160	15070
.499	15.681	314.71570	19050	20100	01420	22200	06260	13190
.499	15.641	314.31610	17270	18350	.00340	21316	04500	11430
.500	17.602	314.99370	1595B	1705D	.01880	+.20290	+.03520	10170
,,,,,,	GRADIENT	06291	.01480	.01483	.01650	.01196	.01122	.01547
	RUN NO.	594/ 0 R	N/L = 3.30	GRADIENT	INTERVAL =	.00/	12.00	
HACH	ALPHAO	Q(PSF)	PBI	PB2	PB4	LHVERT	RHVERT	PCAY
.599	.048	421.64420	57880	57050	36950	59150		54510
.628	6.384	422.64030	45920	45120	22830	48770		42330
.691	8.515	422.69210	40460	39740	15310	44290		-,36800
.808	10.508	422.38840	35290	34690	11500	40350		31460
.690	11.633	422.51E00	33070	32550	05980	39400		28700
.600	12.738	422.39160	30198	29690	03190	37310		25620
.689	13.755	422.26980	28130	27680	00910	36290		23490
.601	14.842	422.89060	28350	26969	.01590	35460		21480
.601	15.883	422.88580	24210	23990	.03789	33900		19220
.601	16.938	423.13920	21410	21460	.06430	31280	05420	16450
.559	17.825		18680	18280	.10360	27780		12940
							nemm.	00000

.02134

HACH

.600

.600

.599

.599

.599

.600

.599

6.417 422.24990

0.452 421.62770

12.653 421.37910

14.754 421,50120

15.887 421.74970

16.873 421.25550

10.659

GRADIENT

421.12590

-,26447

PAGE 423 TABULATED SOURCE DATA - CARD DATE DI DEC 75 £ 20 JUN 75 (DGN0221 ORBITER DATA 03 \$2 CYSO PARAMETRIC DATA REFERENCE DATA .000 AILRON . 5.000 ELEYON = 1109.0000 IN.XO .000 XHRP PHI 2690.0000 SQ.FT. .000 BETAO = .080D 1N.YO YHRP 474.8100 IN. RUDDER -.000 375.0000 IN.ZO ZHRP 935.6800 IN. BREF = .0300 SCALE -.00/ 12.00 GRADIENT INTERVAL . 3.36 RN/L = RUN NO. 591/ 0 PCAY RHVERT LHVERT P84 PBI P82 Q(PSF) MACH **ALPHAO** -.53880 -.34260 -.56590 -.37920 -.58610 -.56990 .035 422.76780 -\_41450 .600 -.23000 -.21460 -.41840 -.50050 6.359 422.52070 -.45990 -.36300 .600 -. 19560 -.38140 -.43890 -. 14860 -.40380 8.489 421.40150 -.15620 -.30960 .599 -.34860 -.11390 -.34770 -,38060 10.617 421.52360 -.25560 .599 -.11400 -.32350 -.05540 -.32420 -,29530 12.671 422.64500 .600 -.10550 -,24620 -.32650 -.31440 -.02900 -.28640 13.745 423.14080 -.21860 .601 -.08370 **-.3092**0 -,00740 -.28590 14.812 422.27350 -.25910 .600 -.19780 -.06540 -.30980 .00510 -.23840 -.25740 15.797 421.27059 -.17080 -.04360 .599 -.28530 .05980 -.23020 -.21260 16.912 421.52360 ~.13130 .599 -.00560 -.25550 .11840 -.16410 -.17270 17.658 422.89210 .601 .01755 .02142 .02090 .02570 .01886 .02052 -.13026 GRADIENT 1 20 JUN 75 1 (DGN023) ORBITER DATA 03 S2 CA20 PARAMETRIC DATA REFERENCE DATA .506 AILBON = 5.000 ELEVON = - 1109.0000 IN.XO \_000 XMRP PHI SREF = 2690.0000 50.FT. .000 BETAO . OY.NI 0000. YHRP = 474.8100 IN. 15.000 RUDDER = 375.0000 IN.ZO ZMRP 936.6800 IN. BREF = .0380 SCALE = .00/ 12.60 GRADIENT INTERVAL = 3.33 RUN NO. 589/ 0 RN/L = **PCAY** LHYERT RHYERT PB4 589 PB1 **ALPHAO** Q(PSF) -.25680 -.40010

-.43040

-,40060

-.36890

-.33790

-.32180

-.30440

-.28000

.01450

-.21950

-.17520

-.12959

-.09710

-.07530

-.05000

.01925

-.34980

-.29270

-.23550

-.19220

-.16900

-.13690

.02533

-.15720

-.09790

-.03970

.01940

.05150

.10890

.13780

.02792

-.44480

-.38710

-.32610

-,27040

-,22560

-.20230

-,17120

.02798

+.41790

-.36620

-.30660

-,25400

-.21710

-. 19570

-.16610

.02577

ORBITER DATA

(DGH024) ( 20 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

	-	2690.0000 474.8100 0883.888 0080.	IN. IN.	XHRP YHRP ZHRP	=	.0000	IN.YO	ELEVON = BETAO = RUDDER =	5.000 -5.000 .000	AILBON PHI	•	\$69. 589.
--	---	--------------------------------------------	------------	----------------------	---	-------	-------	---------------------------------	-------------------------	---------------	---	---------------

05 52

	RUN NO.	598/ 0 R	N/L = 3.35	GRADIENT	INTERVAL =	.09/	12.00	
HACH	AL PHAD	Q(PSF)	PBI	P82	PB4	LHVERT	RHVERT	PCAV
			79580	77350	78790	.11160	83000	60230
.599	.034 4.328		79290	78640	75430	.17070	76890	53570
.601			79880	79030	<b>77260</b>	.20180	73160	47790
.599	8.452		*	77990	77940	.23340	69500	42710
.599	8.512		79360	•	74920	.27640	65420	36240
.599	10.627	421.91980	78700	76960	• • • • • • • • • • • • • • • • • • • •		61340	30520
.60t	12.720	422.29190	-,90760	79100	76570	.30200	•	• • • • • • • • • • • • • • • • • • • •
.599	14.896	421.79470	84970	84510	81240	.29670	55990	27070
.690	16.949	422.17140	92130	92910	89840	.31100	51840	22170
	17.793		96490	97440	93140	.32290	-,49590	20030
.600	GRADIENT	04649	.00061	.00024	.00229	.01530	.01665	.02263

(DGN025) ( 20 JAH 75 ) ORBITER DATA 05 52 CA20

REFERENCE DATA

### PARAHETRIC DATA

SREF LREF BREF	-	2690.0000 SO.FT. 474.8100 IN. 936.6800 IN.	XHRP YHRP ZHRP	=	1169.8080 .6000 375.0800	IN.YO	ELEYON = BETAO = RUDDER =	5.000 .000 .000	AILRON PHI	*	.000
CCALE	-	กสถก									

RŲ	N NO.	581/ 0	RN/L =	3.34	GRADIENT INTERVAL .	00.51 \00

	ALPHAO	Q(PSF)	PBI	P82	P84	LHVERT	RHYERT	PCAV
HACH			64110	69820	71980	44110	19340	32260
.601	6.364	421.06330		+		35970	13930	25940
.600	8.475	420.44320	62400	70540	69760			
.690	10.577	420,69939	64170	71770	71610	34260	10690	21540
		419.69190	67530	74040	74340	30440	06120	16080
.699	12.691			• • • • • •	81420	29610	04290	13440
.599	14.815	419.81990	74700	81040	•••	****		08670
.600	16,986	428.81638	03930	90640	90950	26140	00420	
	12.617	428.94069	88540	95500	95820	24650	.01340	06780
.600			•	00463	.00089	.02339	.02854	.02550
	GRANIFNI	02870	00014	00103	.00003		,	

TABULATED SOURCE DATA - CA20 CYSO

ORBITER DATA 05 52

AILRON =

PHI

PARAMETRIC DATA

5.000

.000

ELEVON =

PAGE 425

.000

.000

### REFERENCE DATA

SREF = 2690.0000 SQ.FT. XHRP = 1109.0000 IN.XO 474.8100 IN. YHRP -LREF

BETAG = .0000 IN.YO RUDDER =

15.000 ZHRP = 375.0000 IN.ZO 936.6800 IN. BREF =

.0300 SCALE =

DATE OF DEC 75

GRADIENT INTERVAL w .00/ 12.00 RN/L = 3.33RUN NO. 588/ 0

MACH	ALPHA0	Q(PSF)	PBI	P82	P <del>B4</del>	LHYERT	RHYERT	PCAY
.600	6.363	422,10830	75900	78260	76590	45550	21810	32910
.600	8.467	421.98550	73980	78460	74770	38440	16040	26440
.608	10.604	421.98390	75230	79040	75390	35828	12030	21670
.600	12.707	421.73170	77820	81890	77100	32120	07040	15390
.600	14.811	421.48310	85500	+.88640	84390	32410	05210	12940
	15.867	422,22950	89780	92720	~.87980	30330	03030	09800
.600	16.913	422.35540	:36130	99400	94470	28360	02110	07790
.608			.00156	00184	.00281	.02292	.02305	.02650
	GRADIENT	02925	.00120	-10101	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			- ·

(DCN027) ( 20 JAN 75 ) ORBITER DATA 06 S2 CAZU

#### REFERENCE DATA

#### PARAHETRIC DATA

.000 AILRON = ELEVON = 5.000 SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO -000 BETAO = .000 PHI = .0000 IN.YO 474.8100 IN. YHRP = .000 RUDDER = ZHRP = 375.0000 IN.ZO 936.6800 IN. BREF = SCALE = .0300

#### GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.31 RUN NO. 582/ 0

насн	ALPHAO	Q(PSF)	PB1	P82	P84	THAERI	IGHATMS	PUAY
.601	6.360	421.32300	77550	81690	78690	49180	22300	80200
.600	8.465	420.33210	75840	82340	79360	44530	17870	79630
	10.581	420.32910	77040	83240	80170	41480	14420	80328
.600	12.695	419.70230	88800	86230	83270	39040	-,10550	83340
.599		421.19870	87460	92970	89990	37660	08510	90120
.601	14.807		99530	-1.04380	-1.01800	35870	06540	-1.01300
.600	16.905	420.07900	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-1.09780	-1.07110	33720	04360	-1.06640
.599	17.799	419.82740	-1.04760		•	.01824	.01867	00029
	GRADIENT	23531	.00120	00367	00351	.01067	101001	,,,,,,

(DCN028) ( 20 JAN 75 ) ORBITER DATA 07 52 CVSO

REFERENCE DATA

PARAMETRIC DATA

.000 5.000 AILRON = ELEVON . XXXP = 1109.0000 IN.XO 400. SREF = 2590.0000 50.FT. .000 PHI = BETAD = .0080 IN.YO YMRP = LREF - 474.8100 IN. .000 RUDDER = ZHRP = 375.0000 IN.ZO 936.6800 IN. BREF =

.0300 SCALE =

> .00/ 12.00 GRADIENT INTERVAL -RUN NO. 583/ 0 RN/L = 3.30

HACH .601 .608 .601 .600 .600	ALPHAO 6.339 8.464 10.590 12.706 14.793 16.912	421.45210	PBI735107140072030748708210098560	PB27981080070809108260089270 -1.00040 -1.05090	P84 76700 76850 77730 79800 65590 98110	LHVERT45540402303748034620335403158029610	RHVERT 19700 15190 11750 07810 06190 03730 01480	79820 79800 79570 82210 89740 -1.01860 -1.07260
.691	17.798	419.83790	98560	-1.05090	-1.02760	29510	01480	-1.07260
.599	GRADIENT	02993	.00348	00259	00242	39810.	.01870	.00359

(DGH029) ( 20 JAN 75 ) ORBITER DATA 08 52 CASO

PARAMETRIC DATA

REFERENCE DATA

.000 5.000 ALLRON = ELEVON =

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO .000 PHI .000 BETAO -.0000 IN.YO YHRP -474.8100 IN. .000 LREF = RUDDER = ZHRP = 375.0000 IN.ZO 936.6800 IN. BREF =

SCALE = .0300

> .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.30 RUN NO. 584/ 0

HACH .600 .600 .600 .600 .601	ALPHAO 6.321 8.437 10.548 12.574 14.794 15.422 GRADIENT	0(PSF) 421.22070 421.09850 421.21600 420.72330 421.71960 420.1015000114	PB1 -1.05850 -1.03110 -1.01920 -1.00150 -1.02540 -1.01980 .00930	-1.09630 -1.109630 -1.09830 -1.08850 -1.10869 -1.10540 00948	P84 -1.07110 -1.06010 -1.04970 -1.64010 -1.05860 -1.05270 .00506	LHVERT -,58430 -,53720 -,50620 -,49000 -,48170 -,47630 ,01848	RIVERT 24760 21240 18360 15620 13790 13580	PCAV -1.07450 -1.06640 -1.06130 -1.06200 -1.09900 -1.11280 .00312
----------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------	---------------------------------------------------------------------------------------	--------------------------------------------------------------------------------	------------------------------------------------------------------	---------------------------------------------------------------	--------------------------------------------------------------	----------------------------------------------------------------------------------------

TARIS ATED SOURCE DATA - CA20

PAGE 427

CA20 08 S2  1109.0000 IN.XO .0000 IN.YO 375.0000 IN.ZO  5/ 0 RN/L = 3.33  QIPSF1 PB1 20.0551099030 21.9193094640 21.5431094700 20.429092190 21.7918095550 21.4235092140 20.4304094810	GRADIENT INTERV P82 P84 -1.0+130 -1.0266 -1.02580 -1.004 -1.02320 -1.00499790981: -1.02840 -1.01699790992 -1.03550 -1.029 .00420 .005	ELEYON = 8ETAO = RUDDER =  /AL = .00/ 12.00  LHVERT RHVER 20404701794 10 .63930 .1759 9036770 .1534 9043580 .1006 6042500 .0225 30418500162	######################################	.908 .909
.0000 IN.YO 375.0000 IN.ZO  5/ O RN/L = 3.33  QIPSF1 PB1 20.0551099030 21.9193094640 21.5431094700 20.4229092190 21.7918095550 21.4235092140 20.4304094810	P82 P84 -1.04130 -1.026i -1.02580 -1.004i -1.02320 -1.004i99790981i -1.02840 -1.01699790992 -1.03550 -1.029	ELEYON = 8ETAO = RUDDER =  /AL = .00/ 12.00  LHVERT RHVER 20404701794 10 .63930 .1759 9036770 .1534 9043580 .1006 6042500 .0225 30418500162	5.000 AILRON = .000 PHI = .000  T PCAY 0 -1.04200 0 -1.00240 098170 0 -1.04200 0 -1.04200 0 -1.04200 0 -1.04200 0 -1.13930	
.0000 IN.YO 375.0000 IN.ZO  5/ O RN/L = 3.33  QIPSF1 PB1 20.0551099030 21.9193094640 21.5431094700 20.4229092190 21.7918095550 21.4235092140 20.4304094810	P82 P84 -1.04130 -1.026i -1.02580 -1.004i -1.02320 -1.004i99790981i -1.02840 -1.01699790992 -1.03550 -1.029	BETAO = RUDDER =  /AL = ,00/ 12.00  LHVERT RHVER 20 -,404701794 10 .63930 .1759 90 -36770 .1534 90 -,43580 .1006 60 -,42500 .0225 30 -,418500162	.000 PHI = .000  T PCAY 0 -1.04200 0 -1.00240 099600 099178 0 -1.04200 0 -1.09410 0 -1.13930	
Q(PSF) PB1 20.0551099030 21.9193094640 21.5431094700 20.4229092190 21.7918095550 21.4235092140 20.4304094810	P82 P84 -1.04130 -1.026i -1.02580 -1.004i -1.02320 -1.004i99790981i -1.02840 -1.01699790992 -1.03550 -1.029	LHVERT RHVER 20404701794 10 .63930 .1759 8036770 .1534 9043580 .1006 6042500 .0225 30418500162	0 -1.04200 0 -1.00240 099800 098170 0 -1.04200 0 -1.09410 10 -1.13930	
20.0551099030 21.9193094640 21.6431094700 20.4229092190 21.7918095550 21.4235092140 20.4304094810	-1.04130 -1.0266 -1.02580 -1.004 -1.02320 -1.00499790981 -1.02840 -1.01699790992 -1.03550 -1.029	-,40470 -,1754 10 .63930 .1759 90 -,36770 .1534 90 -,43580 .1006 60 -,42500 .0225 30 -,41850 -,0162	0 -1.04200 0 -1.00240 099800 098170 0 -1.04200 0 -1.09410 10 -1.13930	
.35164 .01024			.01010	
CA20 09 S	2 0	RBITER DATA	(DGH031) ( 20 ,	IAN 75 )
		F	PARAMETRIC DATA	
1169.0000 IN.XO .0000 IN.YO 375.0000 IN.ZO		ELEVON = BETAO = RUODER =	5.000 AILROH = .000 PHI = .000	900. 200.
96/0 RN/L = 3.29	GRADIENT INTER	RVAL = .00/ 12.00		
	-1.07180 -1.02 -1.0199097	780 3.31490875 950 3.26300995 460 3.26600813 270 3.28900850	20 -1.04640 50 -1.04950 30 -1.01620 60 -1.02130 30 -1.07150	
	0(PSF) P81 21.68170 -1.03350 21.55890 -1.03580 20.6865099080	Q(PSF) P81 P82 P84 21.68170 -1.03350 -1.04000 -1.00 21.55890 -1.03580 -1.07180 -1.02 20.6865099080 -1.0199097	Q(PSF)         P81         P82         P84         LHVERT         RHVE           21.68170         -1.03350         -1.04000         -1.00780         3.31490        875           21.55890         -1.03580         -1.07180         -1.02850         3.26300        995           20.68650        99080         -1.01990        97460         3.26300        813           21.30540        97890         -1.01860        98270         3.28980        850           21.55570        97830         -1.03870         -1.01960         3.29820        895	Q(PSF)         P81         P82         P84         LHVERT         RHVERT         PCAV           21.68170         -1.03350         -1.04000         -1.00780         3.31490        87520         -1.04640           21.55890         -1.03590         -1.07180         -1.02850         3.26300        99550         -1.04950           20.68650        99080         -1.01990        97460         3.26600        81330         -1.01620           21.30540        97890         -1.01860        98270         3.28980        85060         -1.02130           21.55570        97830         -1.03670         -1.01960         3.29820        88930         -1.07150

GRADIENT

-.23528

(DGN032) ( 20 JAN 75 ) ORBITER DATA 08 52

> PARAMETRIC DATA REFERENCE DATA

.000 AILRON . 5,000 ELEVON -XHRP \* 1109.0000 IN.XO SREF = 2690.0800 SQ.FT. .000 .000 PHI DETAD = .0080 IN.YO YHRP = LREF 474.8180 IN. .000 RUDDER = 375,0080 IN.ZO ZHRP =

.00/ 12.00 GRADIENT INTERVAL . RN/L = 3.31 RUN NO. 587/ 0

CYSD

936.6BD0 IN.

.0390

BREF \*

SCALE -

PCAY LHYERT RHVERT P82 P84 **PB1** Q(PSF) EJEH ALPHA0 -.56210 -1.10420 -1.12890 -1.12440 3.38590 -1.09390 -16.82B 420.33980 504 -1.11230 3.38300 -.52480 -1.12590 -1.13210 -1.09220 -14.701 421.22130 .600 -.49740 -1.098503.39850 -1.10620 -1.09340 -12.593 422.46230 -1.05940 .691 -1.08169 3.39910 -.46850 -1.10550 -t.08160 -10.497 422.21680 -1.05800 .601 -1.06520 -.45660 3.37820 -1.06680 -1.03700 -1.69320 -B.391 420.71800 .599 -1.04140 -.53190 -1.07050 -1.04250 3.38950 -1.01089 -6.286 421.46910 .600 -1.02500 -.63250 -1.02110 3.36500 -1.64689 .017 422.33640 -.99600 .601 +.99800 -.70700 3.25520 -.99970 -.97200 -1.04650 6.346 421.21230 .600 **~.98420** -.75000 -.98340 3.27370 -1.03160 -.96120 8.446 421.21380 .608 -.97100 3.29520 -.77670 -.97090 -1.01800 10.563 421.58250 -.95040 .603 -.98238 -.78308 3.31550 ~.98340 12.668 422.07990 -.94580 -1.02380 .601 -1.02380 -.78020 -.99820 3.32990 -1.02640 14.789 422.32850 -.93500 103. -.68170 -1.08090 3.33100 -1.00930-.89570 -1.01670 16.684 422.07990 .601 -.66690 -1.10790 3.33280 -.99330 -1.00530 17.935 421.71470 -,84680 .600 -.01375 .00504 .00468 -.00782 .00427 .00177 -.08908 GRADIENT

> (DGN033) ( 30 JAN 75 ) ORBITER DATA 09 S2 CYSO

PARAMETRIC DATA REFERENCE DATA

AILRON = .000 ELEVON . 5.000 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. XHRP = .000 -5.000 PHI

BETAD -YHRP -.0808 IN.YO LREF = 474.8100 IN. 375.0809 IN.ZO 936,6800 IN. ZMRP = BREF =

.0300 SCALE = GRADIENT INTERVAL = .00/ 12.00 3.34 RUN NO. 599/ 0 RN/L =

> PCAY RHYERT LHYERT P82 PB4 Q(PSF) PBI HACH **ALPHAO** -.58720 -.77870 -.73900 .08180 -.71250 .053 423.17540 -.73310 .601 -.71120 -.50300 .14580 -.68550 -.72940 -.71250 4.278 421.93160 .599 -.45600 -.69360 .17610 -.75590 -.71510 -.68940 6.376 422.05390 .600 -.65620 -.41580 -.69120 .21250 -.71450 8.549 422.05240 -,77889 .600 -.36110 -,70710 .25130 -.63170 -.80540 10.609 421.80370 -.72350 .599 -.30330 .28110 -.59530 +.82090 -.76630 -.73440 12.776 422.17740 .600 -.27880 .26500 -.54800 -.83510 -.82210 -.68000 14.839 422.42900 .600 -.50370 -.22670 .28230 -.98980 17.052 421.92730 -.96860 -.94270 .599 -.21860 .28950 -.49520 -.99370 -.97250 -.93820 17.477 423.17230 .601 .01586 .01346 .02108 .00303 -.00707 -.00096 GRADIENT -. 11473

الكانبية والمستحددة المستحددة المستحددة المستحددة المستحددة المستحددة المستحددة المستحددة المستحددة المستحددة ا المستحددة الم

DATE DI DEC 75

TABULATED SOURCE DATA - CARD

PAGE 429

CA20 747/1

CARRIER DATA

(DGN034) ( 20 JAN 75 )

### REFERENCE DATA

### PARAMETRIC DATA

SREF	=	5500.0000 SQ.FT.	XHRP	=	1339.9000	IN.XO
		327.780D IN.	YHRP			
DOCE		STUR OWAR IN.	7MRP	=	190.8000	IN.ZC

96TAC = -5.000 ELV-IB = .008 ELV-0B = 3.000 RUD-U = .000 RUD-L = .000 RUD747 = .000

SCALE = .0300

### RUN NO. 853/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 5.00

насн	ALPHAH	PSC
.600	-,0B1	1675.99100
.600	1.899	1675.27299
.601	3.842	1674.48300
,599	5.788	1676.35001
.680	7.724	1674.91200
.600	9.637	1675.12601
.601	11.602	1674.84100
.600	13.552	1675.63000
	GRADIENT	38439

CA20 747/1

CARRIER DATA

(DGN035) ( 20 JAN 75 )

### REFERENCE DATA

### PARAMETRIC DATA

SREF *	5500.0000			1339.9000		BETAC = .000 ELV-DB = 3.000	ELV-18 RUO-U		900 000
LREF =	327.7800	IN. YHRP	-	.0000	IN.YC	<del></del>			
BREF =	2348.0400	IN. ZHRP	•	190.8080	IN.ZC	RUO-L = .000	RU0747	= .!	000
SCALE =	.0380								

### RUN NO. 852/ 0 RN/L = 3.31 GRADIENT INTERVAL = -1.00/ 5.00

KACH	<b>ALPHAW</b>	PSC
.600	.000	1675.41600
.600	1.947	1676.20700
.600	3.860	1675.84599
.600	5.828	1676.05200
.600	7.852	1676.20599
.599	9,685	1676.20599
.600	11.561	1675.12700
	GRADIENT	.11228

(DGH236) ( 20 JAN 75 ) CARRIER DATA CA20 747/1 PARAMETRIC DATA REFERENCE DATA ELY-18 -.008 BE745 = 5.000 XMRP = 1339,9000 IN.XO SREF = 5500.0000 50.FT. RUD-U \* .000 3.000 ELV-08 . .0080 IN.YC

> GRADIENT INTERVAL - -1.00/ 5.00 RN/L = 3.27 RUN NO. 854/ 0

YHRP =

ZHRP =

190.8000 IN.ZC

LREF = 327.7800 IN.

BREF = 2348.0400 IN.

.0300

MACH

.539

.599

.601

.600

.601

14.759 422.72350

SCALE =

PSC ALPHAH HACH -.083 1675.20700 .600 1.884 1676.06200 .600 3.844 1675.99001 .600 5,798 1674,76900 .601 7.700 1675.34200 .600 9.668 1674.99399 .600 11.584 1675.34308 .600 GRADIENT -.05527

(DGH037) ( 20 JAN 75 ) ORBITER DATA 747/1 01 St

**-.34310** 

.008

.000

-2.65770

-,29890

RUD-L =

RUD747 \*

PARAMETRIC DATA REFERENCE DATA

4.000 BETAC . .008 ALPHAC = XHRP = 1169.0000 IN.XO SREF = 2690.0000 SO.FT. 3.000 .000 ELV-08 = ELV-IB = OY.NI 0000. YHRP = .000 474.8100 IN. BETAO = LREF = 5.000 ELEVON = ZMEP = 375.0000 IN.20 936.6800 IN. .000 BREF -DX .000 PHI .0360 7.500 .000 SCALE -DZ BY

> GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.29 RUN NO. 851/ 0 PCAY RHLS LHLS PB2 PB4 P91 Q(PSF) **ALPHAO** -1.98510 -,26190 -.23830 -,25220 -.26010 6.201 421.10090 -.26570 -2.11890 -.25110 -.29050 -.28800 -.27580 0.330 420.98039 -,28420 -2.25710 -.31140 -.26650 -.30970 ~.29490 -.30260 10.305 422.72200 -,25450 -2.57230 -.30478 -.30450 -.28850 12.627 422.47330 -.29680 -2,69600 -.25990 -,31630 -.30140 -.32050 -.31440

-.32930 -.34400 16.873 422.72670 .601 -2.46550 -.28000 -.33760 -.35010 -.32480 18.983 421.60260 -.35580 .600 .00000 .00000 .08080 .00000 .00000 .00000 GRADIENT .00000

-.35290

DATE 01 DEC 75

TABULATED SOURCE DATA - CA20

CA20 747/1 Ot 51

ORBITER DATA

PAGE 431

REFERENCE DATA

PARAHETRIC DATA

(DGN038)

		2690.0000 SQ.FT.	YHOO	_	1109.0000	IN.XO	ALPHAC	-	4.000	ELV-18	. =	.020
SREF	•				.0000		ELV-08	=	3.000	ELEVON	=	5.000
LREF	=	474.8100 IN.	YHRP				ALPHA	-	10.000	BETAO	*	.000
BREF	=	936.6800 IN.	ZHRP		375.0000	IN.ZU	·	Ξ		DX	-	.000
SCALE	*	.0300					PHI	-	.080		-	
50112							DY	-	.080	ĐZ	-	7.500

	RUN NO.	850/0 F	W/L = 3.33	GRADIENI	INIERVAL =	~2.867	5.00	
HACH	BETA	Q(PSF)	PBI	PB2	PB4	LHL5	RHLS	PCAV
.600	-9.976	422.47650	35730	33970	34950	33460	33930	-2.24570
.800	-6.964	421.73070	+.34320	33000	~.33700	32420	32310	-5.59160
.539	-4.978	420.98180	31670	30790	31310	30530	29550	-2.27960
.600	-3.007	422.10030	31590	30860	31310	39950	29220	-2.33110
.600	-1.992		31520	30990	31360	31200	28950	-2.36000
.600	-1.008		29230	28780	29320	29310	26590	-2.32380
-601	.007		32030	31700	32100	32110	29150	-2.33990
.600	1.014	422.47170	31000	30798	31250	31380	27940	-2.29470
.600	2.013	421.84820	31000	30660	31140	31380	27870	-2.28090
.609	2.989	421.72470	31150	30990	31360	31750	28140	-2.25140
.600	4.984	422.21990	33580	33320	33700	34190	30560	-2.18920
.601	9.990		36980	37140	37740	-,38100	33990	-2,05670
	GRADIENT	_		00165	00175	00297	00013	.01127

ORIGINAL PAGE IS OF POOR QUALITY CARD 747/1 01 SI

ORBITER DATA

(DGNG39) 1 20 JAN 75 1

	NCE	

### PARAMETRIC DATA

SREF		2690.0000	SQ.FT.	XHRP		1169.0000	IN.XO	ALPHAC		4.000	ELV-IB	•	.000
		474.8100		YMRP			IN.YO	ELV-08	=	3.000	ELEVON	•	5.000
LREF	•							<del></del>					.000
eref		936.6900	IN.	ZMRP	•	375.0000	IN.ZO	ALPHA	•	10.080	BETAG	•	
SCALE	**	.0300						PHI	-	.000	ÐΧ	-	.000
SUALLE	_	.0000						Ya	-	10.000	02	-	7.500

### GRADIENT INTERVAL = -5.60/ 5.00

насн	BETA	QCPSF1	PBI	PB2	PB4	LHLS	RHLS	PCAY
.599	-9,977	421.20800	35430	35910	35980	34968	34400	-1.73770
.599	-6.964	420.96080	35650	36170	-,35460	35170	33790	-1.62340
.600	-5.008	421.71260	34250	34750	33970	33890	32040	-1.60080
.599	-3.000	420.03590	32260	32870	31650	32110	29750	-1.57190
.600	-2.007	421.96020	32400	33060	31540	32360	29750	-1.56240
.599	-1.006	421.08290	33360	33970	32330	33340	30480	-1.57060
.680	.025	421.70960	33730	34160	32500	33520	36830	-1.56750
.660	1.019	421.83590	33739	34160	32330	33580	30560	-1.56620
.600	2.013	421.45960	33220	33580	31650	33090	29960	-1.55300
.599	2.991	421.08990	33360	33940	31650	33340	30090	-1.54490
.539	5.113	420.96680	31590	32150	30050	31870	28070	-1.52540
.600	9.990	421.95490	34690	35330	33020	34880	31370	-1.52410
	GRADIENT	.01891	00190	00149	00027	00193	00055	.00370

ORBITER DATA CA20 747/0 OI SI AT38 AT39

EDGN0401 ( 20 JAN 75 )

#### PARAMETRIC DATA REFERENCE DATA

COFF	_	2690.0000	SO.FT.	XMRP	1169.0080	IN.XO	ALPHAC	*	.000	BETAC	-	.000
		474.8100		YHEP		IN.YO	ELV-18		.000	ELV-08	-	3.000
EREF				ZHRP	375.0000	IN.ZO	ELEVON	-	5.000	HACH	•	.600
SCALE		.0300					BETA0	•	.000	PHI		.600
							nv	_	000	nν	_	PAR

### RN/L = 3.37 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	01PSF)	P81	P82	P84	LHLS	RHLS	PCAV
8.543	1.907	422.63400	31530	35530	30120	30100	31850	25690
8.536	4.846	423.62640	29530	31310	25680	28640	29690	23740
8.531	9.288	422.63550	30270	31250	24140	29490	30360	24560
8.529	17.091	422.88110	31230	31900	25280	30470	31370	25750
8.525	31.807	422.38530	31360	31700	26420	31020	31640	26310
8.523	36.614 GRADIENT	423.13210	30710 .00000	30800	26760	20200	30840	25690

DATE B1 DEC 75

TABULATED SOURCE DATA - CA20

ORBITER DATA

PAGE 433

(DGN041) ( 20 JAN 75 1

PARAMETRIC DATA REFERENCE DATA

SREF		2690.0000 S	O.FT.	XHRP	*	1109.0000	1N.X0	ALPHAO	: =	4.000	BETAC	=	.600
LREF	=	474.8100 I	N.	YKRP	=	.0000	IN.YO	ELY-16	3 =	.000	ELV-08	) <b>=</b>	3.000
BREF	=	936.6800 [	N.	ZHRP	=	375.0000	IN.ZO	ELEVO	4 =	5.000	HACH	*	.600
SCALE	==	.0300						BETAO	•	.000	PHI	**	.000
								nv		000	DV.	_	. 000

RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00

747/0 OI SI AT38 AT39

ALPHAO	DZ	Q(PSF)	PB1	· PB2	PB4	LHL5	RLS	PCAY
12.656	.965	422.78310	32340	32030	37580	35360	32920	35980
12.650	4.780	422.90510	29460	29240	35070	32360	29960	33220
12.648	8.551	422.90660	29580	29430	33250	32490	30160	33350
12.651	15.655	423.65470	30860	30540	36720	33520	31370	35110
12.672	30.855	424.15050	27610	27550	32740	30530	28280	31710
12.678	45.578	423.90020	28940	28980	-,33710	31870	~.29760	33220
12.678	60.229	423.28000	27830	27680	~.33760	30710	28610	32340
	GRADIENT	.00000	.00000	.00000	.00000	.0000	.00000	.00000

ORBITER DATA (DGN042) [ 20 JAN 75 ] CA20 747/0 OI SI AT38 AT39

PARAMETRIC DATA REFERENCE DATA

SREF *	2690.0000	SQ.FT.	XHRP	#	1109.0000	IN.XO	ALPHAC	; =	€.	000	BETAC	-	.000
LREF -	474.8100	IN.	YHRP	#	.0000	IN.YO	ELV-18	} =		000	ELV-08	*	3.002
BREF -	936.6800	IN.	ZHRP	×	375.0000	IN.ZO	ELEYON	1 =	5.	000	HACH	=	.600
SCALE =	.0300						BETAO			000	PHI	•	.000
							fix			000	ĐΥ		. nan

GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PB1	P82	PB4	LHLS	RH.S	PCAY
16.829	3.116	422.77710	32410	34170	33370	33100	32850	30400
16.626	6.039	422.90210	32560	34230	33820	33480	33120	30710
16.849	18.388	424.02930	~.33890	34100	34330	35970	34870	34100
16.864	32.988	424.27160	33740	33450	37180	36090	34470	34790
16.870	48.151	422.65650	32780	32350	36040	35480	33800	34670
16.886	63.071	423.27690	32040	31250	37010	34870	33120	34980
	GRADIENT	.80000	.00800	.00000	.00000	.00000	.00000	.00000

CYSO	747/0	01 51	RETA BETA	QRB1TER	DATA
------	-------	-------	-----------	---------	------

( 25 NAC 85 ) (EPONOG)

#### REFERENCE DATA

### PARAMETRIC DATA

SREF = 2590.0000 SQ.FT. XMRP = 1109.0000 IN.XO LREF = 474.0100 IN. YMRP = .0000 IN.YO BREF = 936.6000 IN. ZMRP = 375.0000 IN.ZO SCALE = .0300	ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.000 .000 5.000 -5.000	BETAC = ELV-OB = HACH = PHI = DY =	-5.908 3.000 .600 .000
--------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------	----------------------------------	------------------------------------------------	---------------------------------

### GRADIENT INTERVAL - -1.60/ 4.00

ALPHA0	DZ	Q(PSF)	PB1	PB2	P94	LHLS	RHLS	PCAV
12.644	1.130	422.53590	46220	9.77950	43680	44510	47130	40130
12.623	4.337	422.66550	47110	9.61130	44190	45430	48000	40700
12.617	8.510	422,79050	46000	9.86450	42710	44270	46930	~.39440
12.619	16.134	423.16720	46440	9.86848	42940	44700	47400	39880
15.630	31.004	422.42280	45630	9.86980	92080	43970	46390	39190
12.635	46.251	422.91410	47400	9.68330	42650	45920	48140	41390
12.636	60.055	482.54190	46380	9.89820	43280	45060	46930	40950
15.030	GRADIENT	.00000	.00000	.00000	.08880	.08880	.00000	.00000

CA20 747/0 02 SI AT38 AT39 ORBITER DATA

(DGH044) ( 20 JAN 75 )

### REFERENCE DATA

### PARAMETRIC DATA

SREF =	2690.0080	SO.FT.	XHRP	_	1109.0000	IN.XO	ALPHAC	-	4.000	BETAC	•	-5.000
LREF =			YMRP		.0000		ELV-1B	=	.000	ELV-08	=	3.000
BREF =	936.6800		ZMRP		375.0000	IN.ZO	ELEVON	•	5.000	HACH	-	.600
SCALE =	.0308						BETAO	•	-5.000	PHI	•	-000
-							DX		.000	DY	•	.000

### RN/L = 3.33 GRADIENT INTERVAL = -1.00/ 4.00

ALPHA0 12.689	OZ 1.078	Q(PSF) 423.68930	P81 25400	PB2 81370	P84 78580	LHLS 03900	RHLS 20680	PCAV 25250
12.667	4.227	423.93170	29900	82670	76930	84140	29890 02005	24930 25060
12.664	8.517 16.093	424.55340 423.93960	30050 30270	83580 84350	78180 80010	84140 85550	30500	25750
12.671 12.680	31.112	423.31180	26210	83190	79610	83840	+.26820	24180
12.697	46.160	423.81050	28800	84940	78120	85610	30630	~.26500
12.700	60.200 GRADIENT	423.06020 .00000	0088 00000,	.00000	79328 .00000	00000. 00000.	30230 80000.	26560

OF POOR QUALITY

DATE DI DEC 75

TABULATED SOURCE DATA - CARO

PAGE 435

747/1 OI SI AT38 AT39 ORBITER DATA LDORUTES & ED ORG.	i	747/1	01 51	PETA BETA	ORBITER DATA	(DCH042)	C 20 JAN 75
-------------------------------------------------------	---	-------	-------	-----------	--------------	----------	-------------

### REFERENCE DATA

### PARAHETRIC DATA

SREF *	2690.0000	50.FT.	XHRP	*	1109.8890		ALPHAC ELV-18			.000 3.000
LREF =	474.8100 936.6800		YHRP ZHRP		.0000 375.0000	IN. YO IN. ZO	ELEVON BETAO	= 5.000	=	008. 000.
SCALE =	.0300						DX	000	•	.000

## CHILLIO 527/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PBI	289	P84	LHLS	RHL5 28070	28280
	.714	423.28310	27620	28330	26530	29000		
8.542	•	422.53740	26060	26710	28240	27230	26460	26500
8.52B	3.692		•	26520	~.28190	27110	26260	26380
8.519	8.066	423.15520	25920		•	25870	26060	26190
8.507	15.605	422.65650	25550	26190	27900	·		25810
	30.694	423.03170	25100	25610	27220	+,26440	25580	
8.501			26430	26910	26820	27720	26930	27190
8,499	36.458	424.27320	••	•====		.00594	.06541	.00571
	COLDIENT	<b>-</b> 25041	.00524	.00544	.00097	,00001		•••

CA20 747/1 OI SI AT38 AT39 ORBITER DATA

(DGN046) ( 20 JAN 75 1

### REFERENCE DATA

### PARAMETRIC DATA

								ALPHAC		4.000	BETAC	-	.506
SREF	=	2690.0000	sq.FT.		=			ELY-18	=	.000	ELY-08	-	3.000
LREF	-	474.8100	IN.	YHRP	=	0000.		ELEVON	-	5.000	HACH	=	.600
BREF	=	936.6800	и.	ZHRP	-	375.0000	14.20	BETAO	-	.000	PHI	•	.000
SCALE	=	.0308						OX	=	.000	DY	•	.000

# RUN NO. 625/ 0 RM/L = 3.33 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 12.932 12.928 12.919 12.922 12.928 12.931 12.938	02 1.832 4.902 9.333 16.297 31.736 46.535 61.653	01PSF) 424.14730 423.89710 423.02720 423.39970 423.02570 423.39650 423.14770	PB131970301303219031310299303005029170 .00000	PB236050337803566034040321603190030600	PB431720299503223030460288102756027790 .00000	LHL531690301003242031510301003028029190	RHLS 32650 30770 32920 32110 30700 30900 29890 .00000	PCAY28950272602939028320267502682025810 .00000
------------------------------------------------------------------------------	-----------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------	----------------------------------------	-----------------------------------------------	-----------------------------------------	-------------------------------------------------------------------------------	------------------------------------------------

DATE OI DEC 75

-

#### ORBITER DATA CARD 747/1 OI SI AT38 AT39

(DGN097) ( 20 JAN 75 )

	PARAMETRIC DATA
REFERENCE DATA	

LREF #	2590.0808 474.9100 936.6800 .0300	IN. IN.	XMRP YMRP ZMRP	•	169.0000 .0000 <b>375.</b> 0000	IN.YO				EL EL	.PHAC .V-16 .EVO ETAO X	) <b>-</b>	8.000 .000 5.000 .000	BETAS ELV-08 HACH PHI GY	000. 000. 000. 000.
			RUN NO.	626	67 O R	N/L =	3.25	GRADIENT	INTERVAL	-1.00/	4.	00			

	RUN NO.	6267 0 RN	/L = 3.25	GRADIENT	INTERVAL	= -1.CD/	4.00	
		O(PSF)	PB1	PB2	PB4	LHLS	RHLS	PCAY
ALPHAO	DZ			35080	34340	24910	34540	31590
16.841	.924	423.52400	34260		28980	32550	-,32320	29450
16.843	3.722	424.13940	31980	32680		35230	34740	32660
16.845	8.201	423.64850	34330	35080	31430	•	•	31840
•	15.692		33520	33910	32120	34500	+.34000	
16.850			34700	34820	35420	35840	35090	33720
16.865	30.760		35000	34950	36270	36330	35550	34600
16.875	45.718			32610	34220	34818	<b>~.33330</b>	-,32560
16.891	61.159	423.01660	32780	•	34560	33550	- 32720	32660
	62 627	127 IUUEN	32190	31970	-,54360			

16,631 67.837 423.14460 -.33850 -.33460 -.34500 -.35360 -.32EB0 -.32930 75.245 424.01670 16.891 .00765 .00793 .01916 .00008 .00859 .21994 .00843 GRADIENT

> (DGHQ4B) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 01 S1 AT38 AT39

### REFERENCE DATA

### PARAMETRIC DATA

							ALPHAC		4.000	DETAC	•	-5.060
SREF	2690.0030 SA	Q.FT.	XHEP	•			ELV-1B		-050	ELV-08		3.000
LREF	474.8100 H		VI-SCP		•	IN.YO	ELEVAN		5.000	HACH	•	.600
EREF	936,6800 11		ZMRP	=	375.0000	IN. ZO	BETAO	_	-5.000	PHI		.000
ECALE	.0300						DX	-	.000	BY	=	.000
~~~~												

#### GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.34 RUN NO. 6247 0

ALPHAO 12.701 12.684 12.674 12.674 12.679 12.680 12.692	0Z .950 4.036 8.306 15.805 30 996 45.974 60.286	422.55980 423.06020 424.54240	P8142680432704519044010437904637000000	P8245650452604655044870441604474046230 .00000	P844151642590442404299041850418504094042310	LHLS40420414604348042320422604342045550	RiLS 43830 44500 46390 45110 44700 45580 47130	PCAV 37930 36500 40190 38940 40000 40000
--	--	-------------------------------------	--	---	---	---	---	--

DATE DI DEC 75

TABULATED SOURCE DATA - CARD

75 I

PAGE 437

	CYSO	747/1 OI SI		ORSITER DATA		100N0493 C	20 JAN 75 1
REFERENCE D	ATA				PAR	AMETRIC DATA	
SREF = 2690.0000 SQ.FT. LREF = 474.8100 IN. BREF = 936.6800 IN. SCALE = .0300	YMRP = .000	00 IN.XO 00 IN.YO 00 IN.ZO			ALPHAC = ELV-18 = ELEVON ELE	.000 BETAC .000 ELV-08 5.000 HACH .000 PHI .000 DY	006 - 3.000 600 000
	RUN NO. 631/0	RN/L = 3.24	GRADIENT I	INTERVAL = -1.00	/ 4.00		
ALPHAO 6.312 6.292 6.278 6.271 6.270 6.269	DZ 01PSF -1.419 422.1127 1.466 422.1112 5.074 421.9861 13.645 422.1127 16.388 422.3599 23.984 422.9825	024960 023220 023480 023040 023110	23730 24830 24310 24510	P84 LHLS21870248*23060220*22830232*22260233*22260236*	22550 23770 23360 23700	PCAY 21100 18210 19410 19090 19530 19340	
<b>0.1</b>	GRADIENT .8000 RUN NO. 628/ 0		.00000 GRADIENT	.00000 .0000 INTERVAL = -1.00		.00000	
ALPHAO 10.637 10.614 10.601 10.592 10.583 10.586 10.566 10.560 10.661	DZ Q(PSF 1.272 422.6295 3.983 422.1322 6.941 422.7545 9.629 422.6280 15.194 423.8750 20.698 423.8750 20.698 423.1223 31.999 422.9998 37.416 422.1282 42.935 423.6719 48.066 422.1262 GRADIENT1834	PB1 02673C 026210 024510 029240 026350 025770 026660 027390 027320 029310 025060 9 .00192	P8230990302102801028010271002795029110289203073027230 .00289	PB4 LHLS2528025412437025412198023226140277230102511255025112550251125502532124025200336 .001	RHLS274702760025180275002518027602760276027780277802778027780277802778027780277802778027780277802778027780277802778027780277802778027780	PCAY205020301777022230192801941020350204702035020470203502042019410 .00232	
ALPHAO 14.838 14.820 14.777 14.777 14.759 14.751	RUN NO. 6307 0  DZ Q(PSF 3.701 421.9936 6.608 422.1172 11.326 423.8624 18.752 421.9936 33.074 422.3644 48.459 423.3635 63.690 423.9856 GRADIENT .0008	030270 029530 028060 030130 029610 030860 20350	PB231640308602950031380310603197029310	P84 LHLS27500302269902942619027928350299270502942887030625050280	RULS 9030700 3029890 7028550 8030630 9031310 9028820	PCAV25940251282380025750253702663024180 .00000	

CA20 747/1 01 SI

ORBITER DATA

100H350) ( 20 JAN 75 )

### REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1109.0000 IN.XO LREF = 474.8100 IN. YMRP = .0088 IN.YO BREF = 936.6900 IN. ZHRP = 375.0000 IN.ZO .0300 SCALE =

- 3ATE3 000. . COD ALPHAC . .080 ELV-08 -3.050 ELV-IB > .600 5.000 HACH = ELEVON = .000 .080 PHI EETAO = .000

DX = 10.000 DY

PARAMETRIC BATA

# RUN NO. 636/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	02	O(PSF)	P81	F82	P84	LHLS	rhls	PCAY
	.172	423.18370	25170	26250	22380	24670	<del>25</del> 580	19910
6.250		422.43590	20370	21650	17710	15840	20740	15070
6.243	3.541	422.81060	24360	25570	20330	23870	24910	19210
6.235	7.711	423.69100	24280	25480	19700	23970	24840	16210
6.238	15.213		2104D	21980	16800	20520	21340	15950
6.237	18.591	422.06060	20520	+.21520	16170	20150	21010	15540
6.239	24.078	422.06210	20020	.01355	.01386	.01434	.01437	.01437
	COADIENT	~.22198	.01763					

# RUN NO. 637/ 0 RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAG	DZ	Q(PSF)	PBI	P82	P84	LHLS	RHL5	PCAY
10.523	2.219	421.94888	25760	26900	23740	~.25400	26260	20910
•	5.391	422.44180	26420	27628	-,22770	28130	26930	21660
10.509		422.94130	27460	28728	22720	27110	27870	22670
10.498	9.749		27750	29040	24820	27480	28210	23110
10.491	17.197	422.43730			24280	28640	29350	24430
10.487	32.470	422.69580	26860	30140	•	27360	27940	23170
10.486	39.016	423.18590	27460	28520	26420		•	23480
10.4B4	97.288	422.69039	27750	28720	24310	27540	28289	
101.21	CRADIENT	.00000	.00000	.00880	.00000	.00000	.00000	.00000

# RUN NO. 638/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.88/ 4.08

ALPHAO	ĐZ	Q(PSF)	PBI	PB2	PB4	LHLS	RHLS	PCAV 22350
14.710	4.989	423.31280	26350	-,27290	24770	26260	26660	
14.694	8.249	422.61220	26200	26970	-,23170	28070	25460	22230
	12.695	423.68580	25760	26580	22550	25650	~.25990	+.51960
14.680	•=		27020	27810	24200	25930	27400	23360
14.671	20.170	422.93340			25450	27780	28210	24240
14.656	35.009	421.80890	27750	20720		•=	~_28950	25050
14.656	50.142	422.81060	28570	29110	26760	28390		
14.648	64.911	423.43240	27460	27810	26428	27360	27940	24650
11.010	GRADIENT	.00000	.00080	.60080	.00800	.00800	.08080	.00000

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

GRADIENT

.00000

.00000

(DGN051) ( 20 JAN 75 ) CA20 747/1 01 SI ORBITER DATA PARAMETRIC DATA REFERENCE DATA ALPHAC = .000 XHRP = 1109.0000 IN.XO .000 BETAC . SREF . 2690.0000 SQ.FT.

PAGE 439

ELV-18 = .000 ELV-08 # 3.000 474.8100 IN. YMRP = .0000 IN.YO LREF = ELEVON . .600 5,000 HACH 936.6800 IN. ZMRP = 375.0000 IN.ZO BREF = BETAO -.000 PHI .000 SCALE = .0300 BY .000 DX 20.000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 641/ 0 RN/L = 3.24

> LHLS ' PCAY **ALPHAQ** ĐΖ Q(PSF) PBt PB2 P84 RHLS -.16520 8.425 422.82360 -.21480 -.22430 -.16280 -.20760 -.21480 6.190 11.560 421.95280 -.21120 -.22170 -,18620 -.20700 -.21270 -.16390 6,192 -.21450 -.20090 -.15890 6.193 16.022 422.95260 -.20450 -.18050 -.20670 23.581 422.20290 -.20330 -.16250 -.20600 -.21390 -.17420 -,20800 6.197 .00000 .00000 .00000 .00000 .00000 **ORADIENT** .00080 .00000

GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 840/ 0 RH/L = 3.25 P84 LHLS RHLS PCAY Q(PSF) PBI 289 **ALPHAO** DZ -.22960 -.18590 10.347 422.32800 -.23480 -.25930 -.21690 -.24240 10.405 05925.--.26120 -.22030 -.23380 -.24640 -.18840 13.221 422.95110 10.407 ~.24780 -.18900 -.24070 -.26060 -.22150 -.23510 10.409 17.990 422.57510 -.22370 -.23750 ~.24980 ~.19220 10.410 25.437 422.07640 -.24360 -.26190 -.26580 -.22030 -.24350 -.25520 -.19780 40.457 422.57510 -.24950 10.413 -.20090 -.25100 -.26770 -,21240 -.24730 ~.25790 46.554 422.32200 10.411 .00000 .00000 .00000

.00000

.00000

GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 639/ 0 RM/L = 3.30 RHLS PCAV PBI P82 £84 LHLS AL PHAD OΖ Q(PSF) +.22040 -.23770 -.18400 14.618 13.230 422.81730 -.22890 -.26190 -.21520 16.279 423.19190 -.21560 -.24890 -.20720 -,21060 -.22690 -. 1739C 14.617 ~.25990 -.20500 -.27810 -.23970 -.24240 20.672 423.81830 -.24730 14.616 -.26460 -.21160 28.161 423.94420 -.25180 -.20200 -.24480 -.24910 14.614 -.25640 -.27130 -.21850 43.380 423.81670 -.25910 -.20720 -.25050 14.610 -.24790 -.26190 -.20910 -,25180 -.27420 -.24080 14.607 58.256 422.94320 -.20790 14.684 68.990 423.44690 -.25180 -.26770 -.23910 -.24610 -.26060 .00000 .00000 .00000 .00000 .00000 .00000 .00000 GRADIENT

CA20 747/1 01 S1

COSTER DATA

(BG(052) ( 20 JX) 75 1

PARAMETRIC DATA

### REFERENCE DATA

-	-	2690.0000 SQ.FT. 474.8100 IN. 936.6900 IN.	XMEP YMEP ZISEP	-		111.40	ALPHAC = ELV-1B = ELEVON = EETAO = OX =	4.000 .000 5.000 .000	BETAC ELV-GB MACH PHI DY		020. 000.E 003. 000.
---	---	--	-----------------------	---	--	--------	---	--------------------------------	--------------------------------------	--	-------------------------------

RUN NO.	635/ 0	EN/L =	3.24	GRADIENT	INTERVAL -	-1.007	4.00
---------	--------	--------	------	----------	------------	--------	------

ALPHA0	DZ	Q(PSF)	FBI	P82	F8+	LHLS	MACS	PLAV
		423.72550	25620	26970	24430	25650	26069	22040
6.161	0			26550	24710	25220	25790	21600
6.159	517	423.60430	25330		- 26990	- 26750	- 27278	23170
6.1ES	3.831	423.23130	26890	28140			83830	- 19150
6.178	11.707	422.48040	22830	24050	23230	22720		
6.203	24.148	422.73050	-,24448	25480	24690	24490	24910	20980
0.603	CHARLENT	- 08579	00339	00343	00524	00352	00340	00351

# RUN NO. 646/ 0 RN/L = 3.84 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAD	ĐZ	Q(PSF)	P81	P82	P <del>B</del> 4	LHLS	RHLS	29200
10.487	1.956	422.98970	33300	34550	29660	33030	33660	
•		423.71450	32830	33900	29040	32420	32990	28700
10.482	6.349			32540	25550	31080	31710	27590
10.488	13.746	422.34450	31300			29550	30160	26060
10.493	29.253	422.09430	29930	30990	28310			27320
10.497	39.661	422.95970	31010	32220	29660	-,30830	31370	******
	44.844	423.21080	31230	32358	28990	31020	31710	27570
10.501				.00000	.00000	.00000	.00000	.00060
	GRADIENT	.08080	.00000	. 60000	.50000			

# RUN NO. 647/ 0 RM/L = 3.24 GRADIENT INTERVAL = -1.90/ 4.00

AL PUAC	DZ	Q(PSF)	PBI	PBS	P84	LHLS	RHLS	PCAV
ALFHAD	.973	424.08300	34630	35469	30960	34370	34810	31460
14.823		422.97120	32040	32930	30740	31930	32320	28630
14.799	3.966		31160	32220	29950	31080	31510	27880
14.785	8.718	423.71600	31600	- 32540	30400	31500	31980	28320
14.777	16.055	423.71450			31820	38850	33260	29700
14.774	31.103		32930	33710		32300	32790	29200
14.771	45.934	422.35050	32340	33060	32510		32320	28820
11.768	60.764	422.21540	-,31970	32410	31200	31750		.03945
-	GRADIENT	37344	.00855	.00645	.00040	.00815	.00832	.0545

DATE 01 DEC 75 TABULATED SOURCE DATA - CA20

ORBITER DATA

(DGN053) ( 20 JAN 75 )

PAGE 441

### REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO LREF = 474.8100 IN. YMRP = .0000 IN.YO BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO SCALE = .0300

.000 4.000 BETAC = ALPHAC = 3.000 ELV-OB = .000 ELV-IB = .600 HACH ELEVON . 5.000 PHI .000 .000 BETAO = .000 10.000 BY DX

PCAV

PARAHETRIC, DATA

# RUN NO. 635/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00

CA20 747/1 01 51

ALPHAD 6.127	DZ -3.556	Q(PSF) 423.17270	PB1 23470	PB2 26710	-,21520	LHLS 23330	RHLS 24780 24510	PCAY 18650 18340
6.127 6.134	595 3.736	423.54570 423.54730	23400 23400 22810	26120 25540 24630	21070 20780 20100	23140 22960 22410	24300 23560	18080 17460
6.151 6.169	11.277 17.789	422.92870 423.05310 00037	23690 00000	25220 00134	20950 .08067	23260 .00042	04449 84800.	18270 .00060

# RUN NO. 694/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	OZ	Q(PSF)	PB1	PBS	P84	LHLS	30020	29630
10.448	-1.201	424.99130	30410	30340	32050	31140		28190
10.431	1.842	424.98280	28860	29040	30630	29670	28610	
	6.408	425,72710	29300	29490	30970	29980	29010	26570
10.432		424.60970	27900	28130	29550	28570	27600	27190
10.436	13.966	•=	28490	+.28650	30120	29060	28140	27750
10.455	28.936	425.35270		27690	29260	28210	27260	26870
10.476	43.999	424.73570	27680			28570	27530	27250
10.477	48.275	424.85B59	26059	28070	29550		.00000	.00000
	GRADIENT	.00800	.00000	.00000	.00000	.00000	.00000	. 50000

# RUN NO. 693/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 14.751 14.731 14.724 14.722 14.722 14.727	DZ 1.086 4.167 8.638 16.335 31.320 46.516	424.85220	P8127530282002908030110307803161030040	PB2 27420 29200 29170 30090 30669 31700 29980	28980 29660 30350 31200 31940 32910 31090	28450 29120 29790 30650 31320 32170 30340	27130 27800 28680 28620 30290 31170 29420	25870 27560 28320 29190 29890 31950 29070
14.727	61.207 GRADIENT	424.10560 .00000	30840 .00000	08862 00000.	31090 00000	-,30340 .00000	00000.	.00000

CA20 747/1 01 51

ORBITER DATA

(DGN854) | 20 JAN 75 |

#### REFERENCE DATA

 SREF = 2590.0000 SQ.FT.
 XMRP = 1109.0000 IN.XO

 LREF = 474.8100 IN.
 YMRP = .0000 IN.YO

 BREF = 925.6800 IN.
 ZMRP = 375.0000 IN.ZO

 SCALE = .0300

ALPHAC = 4.000 BETAC = .000 ELV-18 = .000 ELV-08 = 3.000 ELEV-18 = .000 PACH = .600 BETAC = .000 PHI = .000 000 = .000 PY = .000

PARAMETRIC DATA

## RUM NO. 642/ 0 RN/L = 3.22 GRADIENT INTERVAL = -1.00/ 4.00

ALFHAO	DZ.	Q(PSF)	P81	PB2	PB4	LHLS	RHLS	PCAV
6.693	2.348	421.95280	21120	21980	19350	20230	21270	~. 17140
6.103	5.577	422.20440	21260	22040	19478	20880	21340	17270
	9.879	422.07540	22090	- 22690	19930	21920	22280	18270
6.111		422.57810	21650	- 22490	18670	21670	22020	18340
6.132	17.481			21000	19130	20330	20670	16890
6.145	25.250	422.70010	20380		-00000	.00000	.00000	.00000
	GRADIENT	.00 <b>000</b>	.00888	.00000	.00000	.00000	. 50500	

### RUM 1:0. 677/ 0 RN/L = 3.28 GRADIENT INTERVAL = -1.00/ 4.00

ALFHAD	ĐZ	Q(PSF)	FB1	P82	PB4	LHL5	RHLS	PCAV
10.302	9.42B	424.12200	26360	28450	27560	26990	25930	25130
10.309	7.499	424.62300	25470	25740	26710	26140	25120	24250
10.316	11.549	424.24360	25330	25680	26540	25890	24980	24060
10.316	19.513	424.24520	+.25920	26130	26990	26320	25390	24500
	34.554	424.37270	26050	26190	27390	28630	25660	24750
10.357		424.61830	28800	28970	27950	27300	+.26400	25500
10.267	48.107			.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	*00000	*00000		

## RUN NO. 676/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAD	DZ	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAV
14.555	7.759	423.74230	27390	27170	28410	28090	26870	26190
14.565	10.920	424.86700	23850	23730	24830	-,24490	23300	22550
14.575	15.111	423.74230	25250	25160	25140	25930	24650	23930
14.571	22.922	425.24000	24730	24570	25':50	25160	24840	23300
14.590	37.645	423.36860	28210	27950	29150	28540	27470	26820
14.589	52.632	423.49920	27020	26780	27620	27189	26260	25580
14.705	69.231	424.74280	28720	28460	29440	28920	27689	27140
••••	GRADIENT	.00000	.00080	.00000	.60808	.00000	.00880	.00800

DATE OI DEC 75

TABULATED SOURCE DATA - CA28

CARD 747/1 01 S1 ORBITER DATA

(DGN055) ( 20 JAN 75 )

PAGE 443

REFERENCE DATA	REF	FRFN	JCF	DATA	
----------------	-----	------	-----	------	--

### PARAMETRIC DATA

SREF LREF BREF SCALE	=	2690.0000 474.8100 936.6800 .0300	1N. 1N.	XMRP YMRP ZMRP	=	1109.0000 .0000 375.0000	IN.YO				ALPHAC ELV-18 ELEVON BETAO OX	-	8.000 .000 5.000 .000	BETAC ELV-08 HACH PHI DY	.000. 3.000 000. 000.
				RUN NO.	63	(3/ 0 R	N/L =	3.23	GRADIENT	INTERVAL :	1.00/ 4.00	0 RH 5	PC.	ıv	

ALPHAO	DZ	Q(PSF)	PBI	P82	PB4	LHLS	RHLS	PCAV
5.939	987	421.97860	27540	28660	25808	27660	28970	24240
5.987	1.051	422.35390	27910	28980	25510	27970	28410	24560
6.027	6.647	423.59640	26290	27430	22660	26440	26800	22990
6.074	14.133	422.22680	24660	25550	21810	~.24670	25059	21290
6.098	18.812	423.10220	25180	26130	21520	25340	25650	21920
6.122	24.109	423.47530	+.22740	23670	21870	22960	23230	19530
0	GRADIENT	. 13225	00130	00113	.00102	00109	00120	00113

## RUN NO. 645/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	ÐZ	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAV
10.299	-2.897	422.46960	38320	40000	36090	37920	38780	33910
10.303	.285	423.34140	35228	36690	32960	34740	35620	30520
10.323	4.651	423.48110	35910	37400	33650	35410	36290	31400
10.355	12.183	423,46890	3559D	37080	33310	35110	35880	30900
10.431	27.416	423.71130	31380	32800	29390	30960	31910	26980
10.459	42.296	423.58540	30120	~,31440	28350	-,29920	30700	25680
10.464	47.714	422.64320	30050	31250	28240	29730	30570	25680
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

### RUN NO. 644/ 0 RN/L = 3.28 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ.	Q(PSF)	POI	P82	F84	LHLS	RHLS	PCAV
14,701	738	423.71290	35730	39870	34670	35050	36360	32150
14.691	2.335	423.46110	32789	36040	31430	32480	33600	28820
14.699	6.812	423.03880	33960	37020	32510	33700	34740	29950
14.714	14.542	422.96920	33150	35910	31480	32850	33930	28950
14.743	29.472	423.71130	33220	-,35780	31540	33930	34000	28950
14.754	44.335	423.21550	35510	38120	33990	35470	36490	31650
14.762	59, 151	423.33520	32260	34160	30520	31990	33190	27820
	GRADIENT	08195	.00990	.01247	.01054	.80836	.00898	.01084

CA20 747/1 01 51

ORBITER DATA

(DGNC56) | 20 JAN 75 |

### REFERENCE DATA

 EREF
 =
 2590,0000 SQ.FT.
 XMRP
 =
 1169,0000 IN.XO

 LREF
 =
 474,8100 IN.
 YMRP
 =
 .0000 IN.YO

 BREF
 =
 925,6880 IN.
 ZMRP
 =
 379,0000 IN.ZO

 SCALE
 =
 .0300

PARAMETRIC DATA

ALPHA	C =	8.008	BETAC	•	.000
ELV-1	В =	.000	ELV-0B	=	3.000
ELEVO	N =	5.000	MACH	-	.600
<b>EETAO</b>		.000	PHI	•	.000
DX	•	10.000	DY	-	.000

RUM NO.	634/ 0	RN/L =	3.30	GRADIENT	INTERVAL	₩	-1.00/	4.00	
---------	--------	--------	------	----------	----------	---	--------	------	--

ALPHAO DZ Q(PSF) PB1 PB2 PB4 LHLS RHLS PA	CAV
	14940
	16050
	16140
	18710
	17640
	17270
	00000

## RUN NO. 691/ 0 RN/L = 3.24 GRADIENT INTERVAL = -1.60/ 4.00

ALPHAD	DZ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAY
10.217	-2.770	424.10660	32 <b>3</b> 30	32150	32970	32850	31840	30640
10.225	.202	425.22690	~.30410	30400	31030	30930	29950	28820
10.258	5.005	425.10720	31960	31960	32570	32300	31440	30200
10.289	12.254	424.65850	31150	-,31240	31710	31500	30700	29380
10.356	27.323	424.35920	29600	29690	30290	29850	29080	27940
10.461	42.555	423.98510	27900	27810	28590	28210	27330	26240
16.419	48.530	425.10720	28710	28590	29380	29000	28970	27120
	GRADIENT	00000	.00000	.08000	.00800	.00000	.00000	.00000

## RUN NO. 692/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAV
14.599	266	424.35820	28860	28720	29890	29550	28340	27690
14.597	2.610	424.23010	31960	31890	33020	32660	31500	30830
14.613	7.478	424.73410	29230	29230	39230	29980	28910	28130
14.633	14.672	425.10400	33510	33590	34390	34010	+.32920	32650
14.673	29.795	424.72530	32400	32280	33360	32850	31840	31330
14.695	44.753	424.47870	33580	33390	34550	34010	32850	32770
14.712	59,602	425.72710	31740	31440	32620	32050	30960	30580
17.716	GRADIENT	04455	01078	01102	01089	01082	01099	01092

DATE DI DEC 75

TABULATED SOURCE DATA - CARD

CARO 747/1 OI SI ORBITER DATA

(DGN057) ( 20 JAN 75 )

PAGE 445

RF	FFRE	NLL	DATA	١.

SREF = 2690.0000 SQ.FT. XHRP = 1109.0000 IN.XO

LREF \* 474.8100 IN. YMRP = .0000 IN.YO BREF = 936.6800 IN. ZMRP \* 375.0000 IN.20

SCALE = .0300

PARAMETRIC DATA

8.000 BETAC = .603 ALPHAC = 3.000 .000 ELV-CB . ELV-IB = .600 5.000 HACH = ELEVON = PHI .000 .000 BETAO = .000 20.000 DY DX =

# RUN NO. 543/ 0 RN/L = 3.22 GRADIENT INTERVAL = -1.00/ 4.00

5.942094 423.701901853019250 5.973 4.408 423.080201853019250 6.011 11.874 423.330401801018600 6.079 26.802 423.189201875019250	.18050210002107017830 .17540185501855015380 .17140180701818014950 .17990189901912015830 .00000 .00000 .00000
---	--

# RUN NO. 674/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00

ALPHA0	DZ	Q(PSF)	PB1	<b>685</b>	P84	LHLS	Ancs	1.001
	-1.405	423.98490	27980	27880	28470	28520	27540	26190
10.226	• • • • •		27540	27430	27900	28030	27070	25690
10.235	1.641	424.85440		• • • • •	- 28020	28150	27200	25750
10.253	6.023	424.73000	27690	27620			28550	27070
10.290	13,703	424.99190	29020	26990	-,29500	29370		
	28.615	423.65840	24960	24830	25280	25220	24310	22930
10.351			•	27100	27790	27660	-,26670	25380
10.395	43.888	425.09990	+.27250	• • • • • • • • • • • • • • • • • • • •		28340	27340	26190
10.403	49.633	423.98340	27980	27620	28530			.08080
	CRADIENT	.08080	.00000	.00000	.00000	.00000	.00000	. 10000

# RUN NO. 675/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 14.444 14.457	0Z 1.517 4.549	Q(PSF1 424.98660 423.86740	P81 28800 27320	P82 28460 27100	P84 29670 28020	LHLS 29430 27970	RHLS 28280 26800 27140	PCAV 27320 25820 26190
14.478 14.497	9.043 16.873	424.11590 424.36640	27690 30120 28350	27560 30150 28140	28360 30750 29040	28270 30530 28700	29560 27740	28580
14.563 14.607 14.699	31.919 46.722 62.461	424.11290 425.23520 423.85590	29680 27910	29440 27690	30410 28300 .00080	29980 28030 00000	29920 2714 <b>6</b> .09900	28080 26130 .00800

ZMRP \* 375.0000 IN.ZO

CA20 747/1 01 SI

ORBITER DATA

(DGN058) ( 20 JAN 75 )

### REFERENCE DATA

### SREF = 2698.0000 SQ.FT. XHRP = 1109.0080 IN.XO LREF = 474.0100 IN. YHRP = .0000 IN.YO

BREF = 936.6800 IN. SCALE = .0300

### PARAMETRIC DATA

ALPHAC =	4.000	DETAC	•	.080
ELV-18 =	.000	ELV-08	=	3.000
ELEVON -	5.000	HACH	-	.600
BETAO -	.000	PHI	-	.000
nv -	nnn	ΩV	_	10 000

RUN NO. 775/0 RN/L = 3.33 GRADIENT INTERVAL = -1.00/	4.00	-1.00/	#	INTERVAL	GRADIENT	3.33		RN/L	775/ 0	RUN NO.
--	------	--------	---	----------	----------	------	--	------	--------	---------

ALPHAO	DZ	Q(PSF)	PBI	F82	P84	LHLS	RHLS	FCAY
10.536	-1.419	423.75080	34488	35210	34280	33950	33940	.73920
10.528	1.326	423.75390	33000	33980	32340	32360	32520	.79440
10.524	5.839	424.11900	32480	+.33390	31660	31750	32120	.81200
10.524	13.085	422.68110	30710	31770	29610	30160	30300	.82770
10.535	28.495	423.62330	31820	32870	30640	31200	31440	.83460
10.542	43.191	424.36450	30860	32090	29510	30160	30570	.08800
10.542	47.091	424.24020	31230	32480	29720	36410	30770	.90180
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

### RUN NO. 781/ 0 RN/L = 3.22 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PBI	PBS	P84	LHLS	RHLS	PCAV
14.665	1.432	424.51888	35810	34690	36270	35970	35010	1.25230
14.649	5.001	423.64690	33300	32090	33940	33520	32590	1.25160
14.843	0.890	424.14270	33446	32290	34220	33770	32790	1.24410
14.834	15.716	424.14110	34260	33200	35080	34620	33670	1.21270
14.831	29.965	424.38970	32190	31250	32460	32300	31380	1.24280
14.830	31.354	424.01520	33740	32740	34560	34070	33130	1.21960
14.828	46.543	423.64690	32120	31320	32860	32420	31510	1.24970
14.820	61.677	423.15070	31300	30280	31690	30780	30700	1.28490
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00800

.

DATE 01	DEC 75	TABULATE	D SOURCE DA	TA - CA20							PAGE	447
			CAZD	747/1 01 S	ı	ORBITE	R DATA		(DGN059)	( 2	מגנ מ	75
	REFERENCE DA	ATA .						PA	RAMETRIC D	ATA		
SREF .	2690.0000 SQ.FT.	XMRP =	1109.0000	IN.XO			ALP	HAC =	4.000 E	ETAC	<del>+</del>	.800
LREF =	474.8100 IN.	YMRP =	.0000	IN.YO			ELV	-18 -	.000 E	LV-08	*	3.000
BREF =	936.6800 IN.	ZMRP =	375.0000	IN.Z0			ELE	VON =	5.000 M	IVCH	•	.601
SCALE =	.0300	_					BET	AO =	.00D F	HI	=	.000
SCALE -							DX	-	10.000 0	ΙY	•	10.000
	ALFHAO	RUN NO. DZ	735/ 0 R Q(PSF)	N/L = 3.31 PB1	GRADIENT F82	P84	LHLS	4.00 RHLS	FCAV			
	10.410	-2.369	423.29300	31750	32800	31660	31320	31040				
	16.404	1.142	424.16710	30270	31310	30240	29980	29700				
	10.407	5.650	423.91690	29390	30410	29160	29060	28750				
	10.424	13.193	424.16080	28800	29760	28840	26510	28150				
	10 437	27.965	423.78930	27640	28680	27620	27540	27140				
	10.445	42.957	423.29150	28500	29500	28020	28210	27680				
	10.450	46.957	423.79250	28570	29500	27900	28210	27880				
		GRADIENT	.00000	.00000	.00000	.00000	.08800	.00000	.0000	ıu		

	RUN NO.	738/ 0 RN	/L = 3.24	GRAD1En:	INTERVAL	1.60/	4.00	
ALPHAO	ĐΖ	Q(PSF)	P81	P82	P84	LHLS	RHLS	PCAV
14.679	128	424.04910	34040	33190	33770	34500	33330	85530
14.671	3.023	423.92150	28060	27160	27650	28700	27410	79760
14.669	7.553		29170	28330	28930	29730	28480	80450
14.673	14.658		28720	27810	28470	29250	27950	80700
14.673	30.066	423.79560	29680	28850	29870	30280	29020	02270
14.692	44.947	424.54800	30790	29950	30920	31320	30170	83780
14.683	59.957		30640	28590	30690	30890	+.29970	84280
	GRADIENT	04048	.01897	.01913	.01879	.01840	.01878	.01831

.... ...

CARD 747/1 OI SI ORBITER DATA

(DGN060) ( 20 JAN 75 )

	DATA

### PARAMETRIC BATA

SREF LREF BREF SCALE	=	 IN.	XMRP YMRP ZMRP	-	1109.6000 .0000 375.0000	IN.YO				EL EL	PHAC V-18 EVON ETAO	-			•	.000 3.000 .680 .000
			RUN NO.	78	10/0 RI	N/L =	3.24	GRADIENT	INTERVAL =				.050	UI.	-	10.000

ALPHAO	DZ	Q(PSF)	PB1	PB2	PB4	LHLS	RHLS	PCAV
10.362	-1.757	423.77440	35880	35010	35480	~.35780	35080	.62520
10.376	.812	424.14430	36770	35920	36560	36700	36020	.81520
10.393	5.122	422.65040	35220	34300	34910	35110	34340	.81830
10.433	12.363	423.77120	34990	34100	34650	34990	34070	.89390
10.490	27.851	423.01960	36180	35470	36220	36210	35420	.75490
10.511	42.980	423.39170	31600	30930	31550	31570	30770	.81700
10.512	46.793	422.76800	30850	29180	29900	29920	29090	.82580
	GRADIENT	.00800	.00000	.00000	.00000	.00000	.00000	.00000

ALPHAO	ÐZ	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAV
14.755	.305	424.27490	38980	37800	41680	39870	38580	1.14110
14.757	3.230	423.40220	35810	34750	39550	35940	35480	1.16310
19.785	7.681	424.52670	36180	35080	38950	37370	35920	1.15930
14.743	15.148	424.61328	33150	32030	35990	34380	32790	1.16810
14.783	15.393	424.64310	33890	32740	36730	35050	33530	1.15970
14.805	30.352	424.27330	33740	32550	36610	34810	33330	1.16750
19.819	45.219	424.02460	33080	31770	35820	33950	32520	1.19070
19.819	60.205	423.77280	3226D	38730	34850	32360	31710	1.23220
	COACHENT	_ 20240	DIDEN	01057	01071	01002	01060	กกระจ

RUN NO. 787/ 0 RN/L = 3.18 GRADIENT INTERVAL = -1.00/ 4.00

DATE OF DEC 75

TABULATED SOURCE DATA - CA20

CA20 747/1 01 51

ORBITER DATA

(DGN061) ( 20 JAN 75 )

PAGE 449

OFFERR	D 4 T /	Ł

## PARAMETRIC DATA

LREF	** **	2690.0000 SQ.FT. 474.8100 IN. 936.6800 IN. .0300	XMRP YMRP ZMRP	-		IN.YO	ALPHAC ELV-18 ELEVON BETAO DX	-	0.000 .000 5.000 .000	BETAC ELV-08 MACH PHI DY		.000 3.000 .500 .000
------	----------	---	----------------------	---	--	-------	---	---	--------------------------------	--------------------------------------	--	-------------------------------

### RUN NO. 736/ 0 RN/L # 3.27 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	OZ	Q(PSF)	PBI	<b>685</b>	PB4	LHLS	RHLS	PCAV
10.233	-3.822	423.67110	31900	32220	30460	31570	31250	95210
10.250	443	423.16640	30790	31120	29380	30530	30170	93700
10.273	3,946	424.41260	31750	31900	30180	31380	31040	94890
10.306	11.425	423.42250	33230	33190	31770	32790	32390	96650
10.370	26.395	423.04590	32780	32550	31380	32420	31920	97530
10.405	41,249	423.91530	28500	28010	26888	28090	27540	95080
	47.343	423.91680	30720	~.30340	29210	30410	29900	-,97640
10.417	47.543 CP401FN7	-28389	00219	00178	00182	00194	00198	00271

### RUN NO. 737/ 0 RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	P81	P82	P84	LHLS	RHLS	PCAV
14.551	-1.912	423.41800	33520	33130	31890	33400	32860	89370
14.559	1.350	423.78930	32860	32350	31320	32790	32190	88930
14.571	5.795	423.03940	31820	31180	30460	31870	31180	87540
14.596	13.276	423.29300	32050	31250	30920	32180	31310	68300
14.628	27.980	424.78870	30270	29240	29330	30470	29430	86670
14.652	43.114	424.78560	33920	32930	33200	34070	33000	90060
14.658	57.869	423.91370	28720	27680	27960	28760	27880	84840
14.656			.00800	.00000	.00000	.00000	.00000	.08000
	GRADIENT	.00000	.00000	.00000	.00000			

CA28 747/1 OI SI

ORBITER DATA

(DCH062) ( 20 JAN 75 )

### REFERENCE DATA

 SREF
 2690.0000 SQ.FT.
 XHRP
 1109.0000 IN.XO

 LRZF
 474.8100 IN.
 YHRP
 .0000 IN.YO

 BREF
 936.6800 IN.
 ZMRP
 375.0000 IN.ZO

SCALE = .0300

### PARAMETRIC DATA

ALPHAC	-	4.080	BETAC		-5.000
ELV-18	=	.000	ELV-08	-	3.000
ELEVON	•	5.000	HACH	-	.600
BETAG	-	.000	PHI	=	.000
ΩV		.000	ΠY		. 080

### RUM NO. 649/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DŽ	Q(PSF)	PB1	PB2	PB4	LHLS	RHLS	PCAY
10.509	-1.137	422.60510	32410	33450	33870	32360	32720	29830
10.494	1.805	422.2290	35290	35370	34840	35170	35550	33030
10.489	6.479	423.35090	31600	32610	31030	31380	31850	28950
10.492	14.163	422.48000	33300	34360	32790	33150	33600	30830
10.505	29.706	422.47860	31300	32410	29493	31200	31710	28760
10.508	37.359	422.21940	27910	29110	26930	28028	28410	25560
10.511	44.033	422.60050	30120	31250	28520	30169	36570	27760
	GRADIENT	.00000	.00000	.00000	.08800	.00000	.00000	.00000

#### RUN NO. 648/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	P81	P82	P84	LHLS	RHLS	PCAV
14.815	1.009	422.97570	35140	35980	34270	35110	35350	32720
14.791	4.326	423.47210	37280	39380	~.35490	37370	37500	34910
14.781	B.540	423.34770	35510	3556D	34730	35470	35750	33030
14.774	15.930	423.22650	30200	31250	29490	+.30220	30570	27570
14.772	31.119	422.64920	35070	35650	34330	34920	35210	32590
14.770	46.180	422,47410	31530	32220	30900	31380	31780	28820
14.771	61.235	424.69370	32190	33000	29490	32050	32590	29700
	GRADIENT	.00000	.00000	.00000	.00800	.03000	.00000	.00000

DATE OI DEC 75

#### TABULATED SOURCE DATA - CA20

CA20 747/1 01 SI

ORBITER DATA

(DGN983) ( 80 JAN 75 )

PARAMETRIC DATA

PAGE 451

-5.000 3.000 .600 .000

#### REFERENCE DATA

SRFF =	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN,XD	ALPHAC	-	4.000	BETAC	=
	474.8100		YMRP	•	.0000	IN.YO	ELV-18	=		ELV-08	
BREF =			ZMRP	•	375.0800	IN.Z0	ELEVON	=	•	HACH	*
SCALE =	.0300						EETAO	•	.000	PHI	•
							DX	-	10.600	ĐY	•

### RUN NO. 687/ 0 RN/L = 3.29 GRADIENT INTERVAL' = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PBI	P82	PB4	LHLS	RHLS	PCAY
10.405	-1.205	423.96510	33440	35780	31880	32480	33390	28060
10.394	1.344	424.84120	32650	34480	30400	31870	32590	27090
10.395	6.229	425.34320	31220	32480	28410	30220	30830	25300
10.414	13.845	425.46440	31590	32410	28470	30530	31030	25680
10.432	28.890	424.96710	31740	32150	28640	30770	31100	25990
10.441	43,750	423.46930	29230	29360	26300	28510	28610	23920
10.445	48.107	425.46440	32160	+.32350	29610	31500	31500	27190
101712	GRADIENT	.00000	.00000	.00000	.00000	.60000	.00000	.00000

### RUN ND. 688/ 0 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAV
14.748	1.142	425.09770	33730	33640	31770	- <sup>73400</sup>	32980	29570
14.723	4.240	424.35070	33980	33840	32000	33528	33050	29760
14.719	6.654	424.34770	32770	32860	30920	32360	32640	28760
14.719	16.242	423.97710	31960	32090	30128	31440	31170	27940
14.721	31.044	424.10060	33360	33120	31600	32850	32450	29380
14.728	46.344	423.97410	29670	29490	28070	29240	28740	25930
14.727	60.991	423.59890	28420	28330	26650	27960	27460	24610
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.02020	.00000

CA20 747/1 01 S1

ORBITER DATA

(DGND64) ( 20 JAN 75 )

PARAMETRIC DATA

#### REFERENCE DATA

GRADIENT

epre	_	2690.0000 SQ.F	T. XMRP	=	1109.0000	IN.XO	ALPHAI			BETAC		-5,000
					.0000	IN VO	ELV-18	3 =	.600	ELV-DE	) =	3.000
LREF	=	474.8100 IN.			*		ELEVO		5,000	HACH	-	.600
BREF	*	936.68BD IN.	ZHRP	=	375.0000	IN.ZO		_			_	.000
		.0300					BETAO	•	.000	PHI	-	
SCALE	**	.0300					nu	_	20.000	ΠY		ann.

300							120 -	2000 12
300						מס		20.000 DY
	RUN NO.	670/ 0 RM	₩ = 3.30	GRADIENT	INTERVAL	-1.60/	4,00	
ALPHA0	DZ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAV
10.318	3.700		27540	28070	27450	28340	27410	25500
-	6.553		38640	31510	30010	30960	30440	27950
10.322	11.191		27610	28530	28650	27540	27270	24430
10.343	18.631	424.10980	28870	29760	27900	28700	28480	25560
10.354	33.918		27170	27880	26310	27850	26730	23810
10.379			26880	27430	25850	26560	26330	23370
10.388	48.230		.00000	.00000	.00000	.00000	.00800	00000.
	GRADIENT	.80000	.00000	,,,,,,,,,		••		
	RUN NO.	671/ 0 R	W/L = 3.30	GRADIENT	INTERVAL	-1.00/	4.00	
ALPHAO	DZ	Q(P5F)	PB1	P82	P84	LHLS	RHLS	PCAV
14.501	7.815	424.35700	28940	29500	27670	28700	28350	
14.584	11.048		28060	28530	26710	27790	27410	324620
14.508	15.518		28500	28850	27050	28890	27740	025000
14.516	22.987		-,27390	27620	25970	26930	26601	023810
14.524	38.017		29390	25500	28190	29010	2862	025880
14.529	52.676		20350	28460	26930	27850	27541	024690
14.527	68.431		28210	28270	28820	27660	2741	024500
, , , , , ,	CRADIENT		. 00000	.00000	.00008	.00000	.0008	00000.0

Original pagn ig

DATE OI DEC 75

14.666

14.656

14.666

14.696

14.713

14.725

TABULATED SOURCE DATA - CA20

PAGE 453

		CAZO	747/1	01 51		ORBITER	R DATA			(DCHE	65a (	20 J.	AH 75 I
REFERÊNCE DA	TA								PA	RAMETRI	C DATA		
SREF = 2690.0000 50.FT. LREF = 474.8100 1N. BREF = 936.6900 1N. SCALE = .0300	XMRP YMRP ZMRP		00 IN.XO 00 IN.YO 10 IN.ZO					ALPHAC ELV-18 ELEVON BETAO		8.000 .000 5.000	BETAC ELV-08 HACH PH1		-5.000 3.000 .600
SCALEUSUU								אמ	-	.000	BY	•	.030
ı	RUN NO.	650/ 0	RN/L =	3.23	GRADIENT	INTERVAL =	-1.00	/ 4.0	)				
ALPHAO	OZ	Q(PSF)	PBI	i	P82	F84	LHLS	í	al.s	PC	AV		
10.265	-2.880	422.22090	37	7430	36570	35070	3749	0 -	.37840	3	5420		
10.303	.275	422.21940	37	7140	38250	37860	3718	0 -	. 37500	3	5840		
10.329	4.787	422.21640	-,38	S2 <b>S</b> 0	37530	37460	3633	<b>9</b>	36690	3	4220		
10.366	12.206	422.58860	35	810	36890	33020	3578	0 -	.36150	3	3720		
10.440	27.766	422.96360	32	2120	33060	32620	3205	o -	.32520	2	9760		
10.469	42.705	423.08800	31	670	32410	30970	3163	0 -	.32050	2	9330		
10.475	47.740	422.46360	33	1080	33640	32390	3315	G -	.33460	-,3	0960		
	GRADIENT	.00000	.00	1808	.00000	.00000	.0000	0	.00000	.0	0000		
:	RUN NO.	651/ 0	RN/L =	3.22	GRADIENT	INTERVAL =	-1.00	/ 4.0	3				
ALPHAD	DZ	Q(PSF)	PB1	l	PB2	P84	LHLS	1	HLS	PC.	AY		

-.38640

-.38440

-.37730

-.35110

-.35720

-.34230

.08065

-.37580

-.37200

-.36620

-.35070

-.34770

-.33300

.00098

-.982 423.46260

2.094 423.71290

6.577 424.08900

14.365 423.93560

44.077 422.59010

29.395

GRADIENT

423.21390

.08138

-.39230

-.37750

-.35180

-,35180

-.35010

-.33020

18400.

-.37790

-,37550

-.36940

-.35290

-.34980

-.33640

.00078

-.37980

-.37570

-.36960

-.35350

-.35148

-.33900

.00107

-.35980

-.35660

-.35040

-.33600

-.33220

-.31900

CA20 747/1 01 SI

ORBITER DATA

(DGNG66) ( 20 JAN 75 )

#### REFERENCE DATA

#### PARAMETRIC DATA

SREF LREF BREF SCALE	= = =	2690.0000 SQ.FT. 474.8100 IN. 936.6800 IN. .0380	XMRP YMRP ZMRP	=======================================	1109.0000 .0000 375.0000	IN.YO	ALPHAC ELV-1E ELEVON BETAO DX	3 =	8.000 .000 5.000 .000	BETAC ELV-0B HACH PHI DY		-5.000 3.000 .600 .000
-------------------------------	-------------	---	----------------------	---	--------------------------------	-------	---	-----	--------------------------------	--------------------------------------	--	---------------------------------

	RUN NO.	690/ C RN/	/L = 3.24	GRADIENT	INTERVAL =	-1.00/	4.00	
ALPHAO	DZ	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAY
10.208	-2.705	423.98010	33999	33840	33650	33980	33120	31520
10.219	.329		34690	34680	34390	34740	33960	32460
10.243	4.772		34620	34610	34450	34620	33860	32270
10.288	12.359		31440	31500	31260	31380	30760	29010
10.356	27.344		31220	31180	31090	31200	30560	28820
10.335	42.540		31070	30790	31030	31080	30360	28760
10.337	48.511	424.72760	32400	32350	32400	32420	+.31780	30140
10.407	GRADIENT	.00000	.00000	.00000	.00800	-00800	.00000	.00000
	Drike MO	ego, u BN	/l = 3.25	GRADIENT	INTERVAL *	-1.00/	4.00	

	RUN NO.	689/ 0	RN/L = 3.25	GRADIENT	INTERVAL *	-1.00/	4.05	
ALPHAO	DZ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAV
14.592	448		34320	34100	33360	34250	33460	31270
	2.908			33770	33020	33820	33050	30760
14.594	7.309		177111	32860	32050	32910	32180	29890
14.610	14.529		*	32150	31310	32110	31500	29260
14.635			**	32150	31540	32240	31578	29510
14.677	29.855		1	32220	31890	32420	31780	29700
14.699	44.920		**	31890	31370	31970	31300	29320
14.711	59.693			31890	.00101	85100.	.00122	.80152
	GRADIENT	. 16627	.00131	. oeeeu	.00101	.00160		

\_\_\_

---

DATE DI DEC 75

TABULATED SOURCE DATA - CA20

CA20 747/1 01 S1

ORBITER DATA

PAGE 455

REFERENCE	DATA	

(DGN067) ( 20 JAN 75 )

PARAMETRIC DATA

SREF	_	2690.0000 50.8	FT. XMRP	-	1109.0000	IN.XD	ALPHAC		B.000	BETAC	-	-5.000
	-			_		IN.YO	ELV-18	•	.000	ELY-CE	} =	3.000
LREF			***	_	375.8000		ELEVON		5.000	HACH	•	.600
BREF		936.6809 IN.	ZI TU	-	373.0000	1.4.10	BETAG		.000	PHI		.800
SCALE	*	.0308					Du Du	_	20.000	OV	_	200

RUN NO.	673/ 0	RN/L =	3.28 GH	ADIEMI IMIEMAN	L1.00/	7.00
				004	ı ur c	DI-I

ALPHAO	ĐŻ	Q(PSF)	PB1	P82	PB4	LHLS	KHLS	PLAY
10.219	-1.170	424.60260	38498	30470	30180	30660	29970	28080
10.227	1.973	423,48170	29460	29310	29100	29500	28890	26950
10.253	6.418	424.73000	29680	29630	29380	29680	29090	27140
10.225	13.777	423.85390	28280	28330	27900	28340	27690	25820
10.356	28.938	425.09830	29680	-,29570	29610	29680	29020	27200
10.397	44.164	423,46020	26210	25970	26250	26380	<b>~.25520</b>	23930
10.406	49.620	423.85840	26430	26130	26420	26630	25720	24128
10.700	GRADIENT	.00800	.00000	.00000	.00000	.80800	.00000	.00000

### RUN NO. 672/ 0 RN/L = 3.28 GRADIENT INTERVAL = -1.80/ 4.00

ALPHAO	07	Q(PSF)	P81	P82	P84	LHLS	RHLS	PCAV
14.374	1.687	423.22550	31820	31970	31200	31940	31310	28890
14.386	5.002	423.72280	31750	31840	31090	31760	31180	28770
14.403	9.317	424.97400	28570	28530	27790	28580	27950	25560
14.432	16.929	424.47510	28280	28200	27330	28150	27540	25190
14.474	32.128	424.35070	28970	28660	28190	-,28760	28150	25820
14.499	46.955	424.34910	29510	29180	28970	29370	28750	26510
14.362	60.738	424.97400	28720	-,28338	27850	28400	27810	25630
14.000	GRADIENT	.00000	.00000	.00080	.00000	.00000	.08080	.00000

CA28 747/1 01 SI

ORBITER DATA

(DGN068) ( 20 JAN 75 )

#### REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1109.0000 IN.X0 LREF = 474.8100 IN. YMRP = .0000 IN.Y0 EREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO SCALE = .0300

### PARAMETRIC DATA

E 000				
-5.000	•	BETAC	4.080	ALPHAC =
3.C00		ELV-08	.000	ELV-IB =
.600		HACH	5.000	ELEVON =
.000	=	PHI	.000	PETAO =
10.000	*	DY	.000	ny =

### RUN NO. 776/ 0 RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAV
10.526	-1.143	423.99630	35440	35680	33480	34810	34610	.81890
	1,191	422.88710	~.33440	33460	31320	32730	32590	.82460
10.516	5.570	423.38240	33740	33780	+.31600	32970	32930	.82140
10.514			32550	32740	30290	31810	31780	.64720
10.520	13.285	423.38080	30860	31060	28640	30100	30100	.06160
10.530	28.364	423.13110		30730	28130	29680	29760	.89930
10.538	43.310	423.62640	30420	30860	28130	29680	29769	.89550
10.536	47.055	423.99630	30490		.00000	.00000	.09800	.00000
	GRADIENT	.80000	.80000	.00000	.00000	.00000	.23000	

## RUN NO. 782/ 0 RN/L = 3.21 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 14.852 14.836 14.828 14.824 14.826 14.825	0Z 1.732 4.566 8.660 16.510 31.452 46.608	0(PSF) 423.40070 423.40220 422.90350 423.27420 423.02410 423.39320	P91398703979036840355103278031890	PB2389403896035790348203190031120	P84407104083037816367903388032916	LHLS40120402403725036090332803224029980	RHLS39250392503622035010322503138029900	PCAV 1.20200 1.20010 1.19320 1.18440 1.22340 1.24850 1.29430
14.825 14.822	46.608 61.410 GRADIENT	423.39320 423.77440 .00800	31890 30340 .00000	31120 29440 .00000	312510	32240	••	•••

DATE 01 DEC 75

TABULATED SOURCE DATA - CA28

CA20 747/1 OI SI

ORBITER DATA

PAGE 457 (DGN069) ( 20 JAN 75 )

#### REFERENCE DATA

### PARAMETRIC DATA

SREF =	2690.0000 474.8100				1169.0000	IN.XO IN.YO	ALPHAC = ELV-IB =	4.000 .000	BETAC ELY-08	=	-5.000 3.000
BREF =	936.6800	IN.	ZMRP	-	375.0000	IN.ZO	ELEVON *	5.000	HACH	•	.600
SCALE -	.0300						BETAO =	.000	PHI	•	.000
							DX *	10.000	DY		10.080

#### GRADIENT INTERVAL = -1.00/ 4.00 3.24

ALPHAO	ĐZ	Q(PSF)	PBI	PB2	P84	LHLS	RHLS	PCAV
10.422	-2.280	424.92560	35440	34560	35360	35600	34540	90370
10.485	1.098	424.55590	35960	35140	35930	36020	35020	90430
10.409	5.675	424.05690	32 <del>9</del> 30	32350	57080	33150	32120	67960
10.422	13.013	424.30560	33230	32610	33170	33400	32320	88550
10.450	28.103	424.30400	30790	-,29950	310:30	31080	29970	87920
10.460	43.255	424.80130	27690	27030	27980	28090	26940	85720
10.461	46.967	423.69160	26360	25880	26550	26740	25590	84470
	GRADIENT	.00000	.00000	.00000	.00000	.00800	.00800	.00800

#### GRADIENT INTERVAL # -1.00/ 4.00 RH/L = 3.23

ALPHAO 14.699 14.686 14.677 14.677 14.674	.081 3.398 8.089 15.482 30.336 45.437	0(PSF) 424.53780 424.78560 424.54160 424.66130 422.91630 423.66500	PB1279802754029240310903072030490	PB2270302558028140300802992029560	P84293802897030640325703240032290	LHLS287602827829980318103150031320	RHLS274102694026620305003024029970	PCAV 69460 69210 71150 73230 73730 69770
14.676 14.674	45.437 60.598 GRADIENT	423.66500 422.91480 .07495	30490 26060 .00133	25090 25090 .00136	27790 00154	31320 26500 .08148	25520	69770 .00075

-5.000

3.000

.600

.000

10.000

ORBITER DATA

(DGN070) ( 20 JAN 75 3

HACH -

PHI

PARAMETRIC DATA

ERENCE	

ALPHAC = 8.000 BETAC = SREF = 2890.0000 SQ.FT. XMRP = 1109.0000 IN.XO ELY-18 -- BO-V43 CD0. LREF = 474.8100 IN. ELEVON = 5.000 EREF = 936.6900 IN-ZMRP = 375.0000 IN.20 BETAO = .880 SCALE = .0300 DX = .000 DV

#### RUN NO. 779/ 0 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	P81	P82	P84	LHLS	RHLS	PCAV
10.342	-2.449	423.98500	38460	37610	37470	36040	37500	.867 <del>9</del> 0
10.363	.833	424.02940	40240	39420	39180	39930	39250	.84090
10.393	5.429	424.64940	36690	35860	35700	36330	35690	.84840
10.426	12.730	424.40080	36620	35920	35820	36330	35750	.82550
10.479	27.999	424.15210	35950	35470	35190	35660	36150	.79950
10.511	42.823	424.26650	32489	32030	31830	3218	31780	.82710
10.514	46.832	423.65160	31239	30730	30350	3084.	30370	.85670
	COADICNE	0,000	nnnnn	กกกกก	ลกลกก	เกกกกก	ดกกกก	. อภากกา

#### GRADIENT INTERVAL - -1.80/ 4.00

ALPHA0	DŽ	Q(PSF)	PBI	PB2	PB4	LHLS	RHLS	PCAV
14.727	.234	422.65490	-,41570	40599	43620	42380	41140	1.13540
14.734	3.279	424.27330	42080	41240	44190	43050	41750	1.12480
14.749	7.626	424.64460	35510	34560	37920	36510	35150	1.17190
14.763	15.024	423.69870	35590	34560	37920	36580	35159	1.15930
14.794	30.355	424.51720	34330	33260	3679D	35290	33800	1.17880
14.799	45.083	422.65040	32040	30930	34280	32790	31510	1.21830
14.813	60.285	424.14270	31080	29890	33200	31080	30640	1.25608
	GRADIENT	.53151	00167	00213	00187	00220	00200	00340

DATE O1 DEC 75

TABULATED SOURCE DATA - CARB

CA20 747/1 01 SI

ORBITER DATA

(DGN071) ( 20 JAN 75 )

- PAGE 459

#### REFERENCE DATA

## PARAMÉTRIC DATA

SREF	=	2690.0000	SQ.FT.	XMRP		1109.0080	IN.XO	ALPHAC	•	8.000	BETAC	•	-5.000
LREF		474.B100	IN.	YMRP		.0000	IN.YO	£LV-18	=	.000	ELV-08	•	3.000
BREF	-	936.6800	IN.	ZMRP	-	375.0080	IN.ZO	ELEVON		5.000	HACH	•	.600
SCALE		.0300						BETAO	a	.000	PHI	*	.000
								DX	=	10.000	DY	-	10.000

#### RUN NO. 740/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAV
10.224	-3.964	423.30200	34260	33390	34050	34370	33270	85850
10.249	~1.07}	423.17990	32780	32090	32630	32910	31850	84220
10.273	3.575	423.17990	32120	31180	31890	32180	31040	83710
10.307	11.249	423.17640	31310	30470	31260	31500	30370	03340
10.375	26.103	423.67710	30490	29630	30580	30650	29490	04590
10.487	41.260	423.30350	30050	29300	30298	30410	29230	05280
10.427	47.379	423.80500	29680	29040	29900	30040	28890	05600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

#### RUN NO. 741/ 0 RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAV
14.548	-1.395	423.43300	38990	39510	39950	39380	38320	84780
14.553	1.311	424.55270	37800	37410	37750	38040	37170	83340
14.570	6.124	424.17660	35520	34940	35530	35780	34B10	81830
14.599	13.813	423.42700	32410	31900	32630	32910	31720	79510
14.637	28.816	424.79500	32270	31700	32800	32850	31720	80130
14.658	43.625	424.54960	31680	30920	32290	32180	31040	80010
14.669	59.608	424.54960	27760	26780	28190	27780	27140	76240
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00080	.00080

CARD 747/1 01 SI ORBITER DATA (DGN072) ( 20 JAN 75 )

REFERENCE DATA PA	ARAHETRIC DATA
-------------------	----------------

SREF	=	2890.0000 <b>SQ.FT.</b>	XMPP	•	1109.0000	1N.X0	ALPHAC =	4.000	BETAC		5.000
LREF	=	474.8100 IN.	YMRP	=	.0000	IN.YO	ELV-18 =	.000	ELV-08	-	3.600
BREF	-	936.6800 IN.	2MRP	-	375.0000	IN.ZO	ELEVON =	5.000	HACH	-	.600
SCALE		.0300					BETAC =	.000	PHI	•	.000
							ny -	000	ΩY	_	10 000

RUN NO.	777/ 0	RN/L =	3.27	GRADIENT	INTERVAL =	-1.00/	4.00
---------	--------	--------	------	----------	------------	--------	------

ALPHAO	ÐZ	Q(PSF)	PBI	P82	P34	LHLS	RHLS	PCAV
10.551	-1.260	423.62330	35660	35340	33600	34990	34740	.97860
10.547	1.334	424.12050	33810	33390	31660	33220	32930	.69430
10.536	5.878	423.50050	33520	32940	31200	32790	32520	.83740
10.536	13.042	423.75080	32560	32030	30240	31870	31580	.87100
10.541	28.032	423.75080	32410	32090	30120	31750	31510	.86799
10.562	43.587	423.39240	30710	30410	28240	29860	29760	.98888
10.545	47.071	423.59550	31300	31069	28930	30530	30370	.92690
	GRADIENT	.00000	.00000	.00000	.00800	.00000	.00800	.00000

#### RUN NO. 783/ 0 RN/L = 3.21 SRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAV
14.885	1.650	423.77590	33740	32480	35020	34070	37190	1.25730
14.665	4.787	422.77550	31820	30600	33200	32240	31310	1.25980
14.651	8.930	423.15220	32190	31069	33600	32730	31780	1.22960
14.643	16.495	422.90050	30868	29700	32340	31450	30300	1.21460
14.833	31.538	424.26860	31160	30150	32800	31870	30700	1.22520
14.829	46.682	424.02469	29970	29050	31380	30590	29490	1.24530
14.822	61.650	423.39920	28720	27750	29780	28640	28210	1.29560
	GRADIENT	.00000	.00000	.00000	.00800	.00000	.00800	.00000

نسم

747/1 OI SI

ORBITER DATA

(DGN073) ( 30 JUL 75 )

#### REFERENCE DATA

#### PARAMETRIC DATA

SREF	•	2690.0000 9	SQ.FT.	XMRP		1109.0000	IN.XO	ALPHAC =	4.088	BETAC		5.000
LREF	-	474.8100	IN.	YHRP	-	.0880	IN.YO	ELV-18 =	.000	ELV-08	•	3.000
eref	=	936.6800	IN.	ZHRP	-	375.0000	IN.20	ELEVON =	5.000	MACH		.688
SCALE	=	.0300						BETAO =	.000	PHI	•	.680
								DX •	10.000	BY		10.000

#### RUN NO. 743/ 0 RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PBI	PB2	P84	LHLS	RHLS	PCAV
10.456	-2.278	424.05690	32560	32030	33080	32970	31920	81960
10.441	. 974	423.80810	32190	31440	32630	32480	31380	81580
10.437	5.632	423.93100	30050	29110	30350	30160	29090	79690
19.440	12.947	424.30090	30130	~.29170	30460	30340	29160	80450
10.454	28.272	423.80500	29170	28330	29550	29370	20210	79190
10.462	43.215	423.80190	29310	28530	30010	29730	28550	80970
10.464	46.552	424,79660	29310	28660	29550	29730	28550	80070
	GRADIENT	.00000	.00000	.00000	.00080	.00000	.00000	.00000

#### RUN NO. 746/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAD	0Z	Q(PSF)	PBI	PB2	P84	LHLS	RHLS	PCAV'
14.699	.081	424.53700	27980	27030	29360	28760	27410	69460
14.696	3.398	424.78560	27540	26590	28870	28270	26940	69210
14.677	8.089	423.54160	29240	28140	30640	29980	28620	71150
14.677	15.482	424.66130	31090	30080	32570	31810	30500	73230
14.674	30.336	422.91630	30720	29820	32400	31500	30240	73230
14.676	45.437	423.66500	30490	29560	32290	31320	29970	73730
14.674	60.598	422.91480	26060	25090	27790	26500	25520	69770
	GRADIENT	.07485	.00133	.00135	.00154	,00148	.00142	. 00075

Original Pagn ig

10.000

CA20 747/1 01 S1

ORBITER DATA

(DG2074) ( 20 JAN 75 )

#### REFERENCE DATA

 SREF
 =
 2590.0000
 SQ.FT.
 XMRP
 =
 1109.0000
 IN.XO

 LREF
 =
 474.0100
 IN.
 YMRP
 =
 .0000
 IN.YO

 BREF
 \*
 936.0000
 IN.
 ZMRP
 =
 375.0000
 IN.ZO

 SCALE
 .0300

ALPHAC = 8.000 BETAC = 5.000 ELV-18 = .000 ELV-08 = 3.000 ELEVON = 5.000 MACH = .600 BETAC = .000 PHI = .000

DY

.000

DX =

PARAMETRIC DATA

#### RUN NO. 778/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAD	OZ	Q(PSF)	PÐI	<del>P</del> 82	P84	LHLS	RHLS	PCAV
10.368	-2.569	423.51310	37430	36830	35820	38880	36560	.89740
10.382	.494	423.52090	38320	37670	36790	37860	37590	.68230
10.404	5.444	422.77250	38240	37480	36790	37740	37300	.83710
10.446	12.879	424.51720	-,37280	36500	35870	36760	36360	.84220
10.484	27.855	424.39130	34770	34360	33480	34380	33940	.02270
10.507	42.785	424.64310	34990	34560	33710	34500	34140	.81080
10.510	46.810	423.27570	33440	33070	32120	32850	32590	.83900
	GRADIENT	.คภกคภ	. 00000	.00000	.00800	.00800	.00000	.00000

#### RUN NO. 785/ 0 RN/L = 3.20 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PB1	P82	PB4	LHL5	RHLS	PCAY
14.769	.421	423.78690	35510	34690	37700	36450	35210	1.18950
14.763	3.277	424.03250	39100	37220	+.40320	38960	37710	1.14990
14.765	7.611	424.19580	35140	34230	37350	36899	34740	1.17440
14.776	14.897	423.28170	34030	33000	36220	34930	33600	1.16520
14.801	30.065	424.02780	34850	33910	37300	35900	34410	1.16940
14.812	45.241	424.27020	34480	33260	36670	35230	33870	1.19450
14.889	60.161	424.14740	32710	~.31510	34790	32910	32250	1.23560
	GRADIENT	.08600	08907	00886	08917	00979	00875	01387

DATE 01 DEC 75

TABULATED SOURCE DAYA - CARD

CA20 747/1 01 S1

ORBITER DATA (DGNO7)

(DGN075) ( 20 JAN 75 1

PAGE 463

#### REFERENCE DATA

### PARAMETRIC DATA

SREF LREF	=	2690.0000 S	 RP	-	1109.0000	IN.XO IN.YO	ALPHAC = ELV-18 =	8.000 000.	BETAC ELV-08		5.000 3.000
BREF	=	936.6800 l		-	375.0000	IN.20	ELEVON - GETAO -	5.000 .000	HACH PHI	=	.600 820.
SCALE	=	.0300					DETAU =	10 000	DY	-	.000

### RUN NO. 744/ 0 RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	ĐΖ	Q(PSF)	PBI	P82	P84	LHLS	RHLS	PCAV
10.291	-4.295	423.67860	32930	32290	33430	33210	32260	82020
10.284	-1.016	423.92760	32050	31390	32630	32360	31380	81830
10.296	3.234	424.92410	32640	31900	33200	32910	31850	82770
10.325	10.653	424.17978	32190	31310	32690	32420	31310	82270
10.391	26.076	423.30200	30200	29170	30750	30410	29290	81700
10.421	40.921	424.04910	30790	29820	31490	-,31140	29970	65050
10.429	47.391	423.80030	30270	29370	31030	30710	29490	82270
	GRADIENT	.00000	.00300	.00000	.00000	.00000	.00000	.00000

### RUN NO. 745/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	02	Q(PSF)	PBI	P82	P84	LHLS	RHLS	PCAV
14.583	-1.882	423.92310	31970	31180	32630	32420	31310	74860
14.579	1.393	423.29750	30720	29890	31380	31140	30100	73040
14.585	5.736	424.29460	30570	29630	31320	31020	29900	<b>7329</b> 0
14.601	12.981	424.29460	30790	29760	31660	31260	30030	73670
14.629	28.053	423.29600	29610	28330	30690	30160	28750	72660
14.652	42.937	424.53380	29760	26460	31030	30410	28960	73350
14.659	57.817	423.29150	32410	31250	33880	32970	31789	<b>7</b> 5930
•	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00800	.00800

SCALE =

CA28 747/1 01 SI

ORBITER DATA

(DGN075) ( 20 JAN 75 )

#### REFERENCE DATA

.0300

 SREF
 =
 2690.0000 SO.FT.
 XMRP
 =
 1109.0000 IN.XO

 LREF
 =
 474.8100 IN.
 YMRP
 =
 .0000 IN.YO

 BREF
 =
 936.6800 IN.
 ZMRP
 =
 376.0000 IN.ZO

ALPHAC .	4.000	BETAC	=	-5.000
ELV-IB .	.000	ELV-08	•	3.000
ELEVON =	5.000	насн	•	.600
EETAO =	.000	PH1	*	7.500
Dx =	.030	DY		.000

PARAMETRIC BATA

### RUN NO. 708/ 0 RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAD	DZ	Q(PSF)	PBI	P82	P84	LHLS	RHLS	PCAV
10.498	-1.277	423.60250	36170	36930	34270	35960	35750	31408
10.489	2.021	423.85330	33070	33450	31080	32790	32580	28010
10.492	6.310	424.72360	32700	33080	30740	32420	32250	27753
10.500	13.726	424.10050	31670	32020	29660	31320	31240	26810
10.510	28.693	424.58990	31450	31830	29860	31320	31100	27000
10.516	43,777	424.21850	29820	29880	28010	29550	29350	25430
10.513	47,275	422.64490	27310	27490	25390	27110	26800	22920
• • • • • • •	GRADIENT	.00000	.00000	.00000	.00800	.00800	.00000	.0000

### RUM NO. 699/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	OZ	Q(PSF)	PBI	P82	P84	LHLS	RHLS	PCAV
14.757	1.909	422.72130	34110	35330	32560	33950	34130	29140
14.746	4.533	423.47450	32330	33450	30690	32360	32450	27380
14.741	9.089	423.09650	35210	36170	33530	35230	35140	30140
14.736	16.707	423.59950	31820	32930	30230	31990	31910	26880
14.734	31.718	423.97140	31520	32410	29890	31630	~.31510	26560
14.738	46.644	422.97290	31450	32350	29710	31570	31370	26500
14.739	61.610	424.22480	28500	29110	26580	28450	28340	23480
	GRADIENT	.00000	.00800	.00000	.00000	.00000	.00000	.00000

DATE 01 DEC 75

TABULATED SOURCE DATA - CA20

CA20 747/1 01 51

ORBITER DATA

(DGK077) ( 20 JAN 75 )

PAGE 483

DECEDENCE	

#### PARAMETRIC DATA

SREF LREF	=	2690.0000 9		XHRP YHRP		1109.0000		ALPHAC = ELV-IB =	4.08B .080	BETAC ELV-08		-5.660 3.000
SREF	_	936.6800	IN.	ZHRP	æ	375.0000	IN.20	ELEVON -	5.000	HACH	=	.600
SCALE	-	.0300						BETAO =	.080	PHI	=	7.500
								DX =	10.080	BY	=	.003

RUN NO.	679/ 0	RN/L =	3.29	GRADIENT	INTERVAL =	-1.80/	4.00	

ALPHAO	DZ	O(PSF)	PBI	283	PB4	LHLS	RH.S	PCAY
10.372	-2.105	424.84510	33750	35020	32970	33590	33530	30150
10.367	1.060	424.46280	32340	-,33720	31660	32240	32250	28540
10.357	5.691	425.33780	31380	32750	30580	31140	31240	27510
10.389	13.253	424.83720	29960	31250	29100	29740	29690	26130
10.411	28.269	424.71290	33230	<b>34370</b>	32120	32790	32990	29090
10.422	43.330	424.46250	30420	31380	29210	29920	30100	26190
10.423	48.502	423.96700	29930	30740	26470	29310	29420	25500
	GRADIENT	00000	.00000	.00000	.00000	.00888	.00000	.00800

#### RUN NO. 680/ 0 RN/L = 3.28 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	ĐΖ	Q(PSF)	PBI	P82	PØ4	LHLS	RHLS	PCAY
14.684	.874	424.96320	37440	38190	35990	37250	-,37230	33480
14.657	4.232	424.71290	31240	32100	29730	-,31080	31110	27010
14.662	8.405	425.08608	3%550	35530	33200	34630	34610	30400
14.663	16.057	425.58490	31830	32680	30130	31630	31650	~.27450
14.668	30.959	424.33770	31168	31770	29560	30960	30900	28820
14.672	45.936	423.84040	31240	31840	29610	31080	30970	25960
14.603	61.178	423.58720	3057 <b>0</b>	31080	28760	30230	30160	26970
	GRADIENT	.00000	.00000	.00000	.08080	.00000	.00000	.00800

ORIGINAL PAGE IS OF POOR QUALTIY CA20 747/1 01 S1

ORBITER DATA

(DGN078) ( 20 JAN 75 )

#### REFERENCE DATA

#### PARAMETRIC DATA

SREF	•	2690.0000 SQ.FT.	XMRP		1109.0000	IN.XO	ALPHAC 4		3.000	BETAC		-5.000
LREF	-	474.8100 IN.	YHRP	=	.0000	IN.YO	ELV-IB			ELV-08		
BREF	21	936.6800 IN.	ZNRP		375.0000	IN.ZO	ELEVON •					3.000
SCALE	=	.0300					ELEVOIV -	•	5.000		•	.600
								•	.000		•	7.500
							DX •	•	.000	DY		.000

### RUN NO. 701/ 0 RN/L = 3.22 GRADIENT INTERVAL = -1.00/ 4.00

AL PHAO	ÐZ	Q(PSF)	PBI	P82	P84	LHLS	RHLS	PCAV
10.301	-1.522	423.46700	38890	39180	36658	38160	37630	34350
10.323	1.720	423.59050	35320	36370	34950	36390	35820	32590
10.358	6.033	424.33020	35800	35720	34380	35780	35280	32020
10.399	15.288	423.46100	34030	33970	32730	33820	33390	30140
10.452	28.550	424.57890	32480	32280	31310	32480	31910	29010
10.485	43.635	423.50270	30340	30140	29430	30470	29890	27130
10.490	47.138	424.20120	31300	31120	384 <b>50</b>	31500	30900	28190
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

### RUN NO. 698/ 0 RN/L = 3.31 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PB1	PB2	PB4	LHLS	RHLS	PCAV
14.639	1.551	424.71880	36470	40450	35860	36330	37030	32970
14.646	4.440	423.22750	36320	39740	35920	36270	36960	32720
14.662	9.007	424.47180	35800	39090	35350	35780	36420	32210
14.679	16.752	423.85020	33290	3604 <b>0</b>	32620	33280	33900	29200
14.701	31.550	424.22010	32700	34880	31820	32790	33060	28380
14.713	46.466	423.71880	30540	32740	29550	30770	30970	26250
14.722	61.470	424.21690	31300	55000	30230	31140	31580	26810
	GRADIENT	.00000	.00000	.00000	. 00000	nnnn	RARRA	00000

DATE 01 DEC 75 TABULATED SOURCE DATA - CA20 CA20 747/1 01 51

ORBITER DATA (DGN079) ( 20 JAN 75 )

PARAHETRIC DATA

PAGE 467

#### REFERENCE DATA

eper	-	2690.0000	SO.FT.	XMRP	•	1109.0000	IN.XO	ALPHAU	-	8.000	DC. I AA.	-	-3.000
				YMRP			IN.YO	ELV-18	-	.000	ELV-08	•	3.000
LREF	•	474.8100		•				ELEVON	-	5.000	HACH		.600
BREF	#	936 6800	IN.	ZMRP	=	375.0000	IN.20		_			_	7.500
SCALE	-	.0300						BETAO	-	.600	PHI	=	
3000								DX	-	10.000	DY	=	.080

### RUN NO. 682/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00

		Q(PSF)	PBI	PB2	PB4	LHLS	RHLS	PCAV
ALPHAO	OZ	utrari	FOI					
10.182	-3.146	424.47480	31610	31770	30010	31210	30900	27640
10.201	191	425.21660	36630	35640	35080	36210	35820	-,32850
10.501				77070	30350	31450	31170	27830
10.223	4.302	424.84670	31830	32030	20220	31730	31170	
10.263	11.935	424.97110	30720	30800	29330	30290	30030	26760
10.443				201.00	30810	31760	31590	28330
10.337	26.849	423.84640	32340	32420	30010	31 100	31300	
10.377	42,008	424.84040	30500	30540	29160	30850	29830	26630
			77010	33010	31610	32670	32328	29080
10.386	48.909	424.58850	33010	-, 55010	31010	56070		
	COADIENT	กลกลด	.00000	.00000	.00000	.00000	.00600	.00000

### RUN NO. 681: 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	٥z	Q(PSF)	PBI	PB2	PB4	LHL5	RHLS	PCAV
14.540	899	425.46220	38990	~.39230	37300	38B40	38510	34920
14.539	1.681	425.33630	37960	-,38060	36110	37620	37300	33670
14.550	6, 191	424.34070	34040	34170	-,32180	33710	33530	29520
14.577	13.669	424.96630	34850	34950	32970	34500	34200	30340
14.626	28.659	425.46060	34120	33980	32400	33830	33460	29710
14.654	43.807	424.96480	32710	32690	31210	32610	32120	28640
14.668	58.633	424.34370	31610	31510	30180	31510	31040	27570
14.050	GRADIENT	64880	.00399	.00454	.00461	.00473	.80469	.08485

-5.000

3.000

.600

7.500 10.009

61.369 422.58340

.00000

GRADIENT

CA20 747/1 01 51

ORBITER DATA

.00000

.00800

.00000

(DGN080) ( 20 JAN 75 )

BETAC -

ELV-08 =

HACH

PHI

DY

.00000

PARAMETRIC DATA

#### REFERENCE DATA

14.693

LREF	•	2690.0000 SQ 474.8100 IN 936.6800 IN .0300	i.	YMRP	-	1189.0000 .0000 375.0000	1N.YO	ALPHAC = ELV-1B = ELEVON = EETAO = DX =	4.000 .000 5.000 .000
------	---	---	----	------	---	--------------------------------	-------	---	--------------------------------

-.34030

.00000

	RUN NO.	791/ 8 RN	/L = 3.34	GRADIENT	INTERVAL	-1.00/	4.00		
ALPHA0	DZ	Q(PSF)	PBI	P82	P84	LHLS	RHLS	PCAV	
	.273	422.71000	36240	37010	33820	34980	35340	. 16520	
10.543		422.33780	35870	36560	33250	34560	34940	.17409	
10.537	3.154		35500	36240	32850	34190	34540	. 17270	
10.543	7.602	423,20560	35430	36040	32570	33950	34470	. 16700	
10.545	14.948	422.21120		33640	30060	31500	32050	. 17520	
10.563	30.456	423.33000	32590	34880	38970	32420	33060	. 16520	
10.569	45.266	422.33330	34180		31770	33150	33860	. 15320	
10.573	47.765	424.07430	34990	35720		.00146	.00139	.00305	
	GRADIENT	12918	.60128	.00158	.00198	***************************************	.00105	,,,,,,,,	
	RUN NO.	792/ 0 RM	I/L = 3.33	GRADIENT	INTERVAL	= -1.00/	4.00		
ALPHAO	DZ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAY	
14.693	2.086	423.08440	48570	49140	44358	46650	47660	.23610	
14.684	4.700		47830	48420	43670	45970	46960	.23800	
•	9.002		46060	46670	42130	4439D	45110	.23360	
14.679	16.303		41560	42070	37920	39930	40800	.23740	
14.683			36540	36920	32910	34680	35750	.25060	
14.691	31.443		35650	35650	31880	33340	34940	.24990	
14.694	46.562 61 369		34030	33510	29830	30890	33190	.25430	

. The continuous consequences between the second continuous and the second continuous section  $\mathcal{L}_{\mathcal{A}}$ 

DATE 01 DEC 75 TABULATED SOURCE DATA - CARD

CARD 747/1 OI SI ORBITER DATA

(DGN081) ( 20 JAH 75 )

PARAMETRIC DATA

PAGE 469

				• •
77.5	<b>-</b>	NCE	LIA	ι.

SREF = 2890.0000 SQ.FT. XMRP = 1109.0000 IN.XO  LREF = 474.8100 IN. YMRP = .0000 IN.YO  EREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO  ELEV  SCALE = .0300  DX		.000 5.000 .000	ELV-08 MACH PHI DY		3.000 .600 7.500 10.000
--	--	-----------------------	-----------------------------	--	----------------------------------

## RUN NO. 752/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 10.346 10.345	DZ -1.602 1.482	Q(PSF) 424.92860 424.55240	PB1 35950 34330	PB2 35470 33980	P84 33250 31770 30120	LHLS 35350 33930 32160	RHLS 35010 33330 31710	PCAV -1.45070 -1.44000 -1.43120
10.354 10.381 10.4 3	5.906 13.318 28.645	424.17780 424.42650 424.17940	32700 31230 30490	32290 30860 30080 28590	28700 28070 28070	30650 29920 28210	30230 29560 27680	-1.44510 -1.45200 -1.45320
10.412 18.415	43.525 47.221	423.30620 424.17940	29790 29310 .08000	29110	27160	28700	26410 .00080	-1.45010 .00000

## RUN NO. 755/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 14.608 14.598 14.593	02 246 2.722 7.480	Q(PSF) 424.92690 424.30210 424.30530	PBI 42300 41120 39940	P82 42020 40980 39810	PB4 40540 39460 38260	LHLS 41890 40850 39750	RHLS 41540 40470 39190	-1.46770 -1.46390 -1.46399
14.598 14.613 14.617 14.621	14.602 29.697 44.725 59.760 GRADIENT	424.92530 423.92750 423.43120 424.19090 21094	38760 32110 32780 30640 .00398	38320 31450 32030 29830 .00351	37070 30630 31320 28980 .00365	38470 31940 32360 29800 .00351	37910 31240 31990 29900	-1.47330 -1.44690 -1.45760 -1.45070 .00128

EA20 747/1 01 St

ORBITER DATA

(DGN0S2) ( 20 JAN 75 )

#### REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO YMRP = .0000 1N.YO LREF = 474.8100 IN. ZHRP = 375.0000 IN.ZO EREF = 935.6800 IN. .0300 SCALE =

PARAMETRIC DATA

8.000 BETAC -ALPHAC -3.000 ELV-18 . .888 ELV-08 -5.000 MACH -.600 ELEVON = .080 PHT 7.500 EETAO = 10.808 .080 DY

### RUN NO. 798/ 0 RN/L . 3.28 GRADIENT INTERVAL . -1.00/ 4.00

ALPHAO	OZ	Q(PSF)	PBi	P82	Pau	LHLS	RHLS	PÇAV
10.341	270	423,69250	40300	39870	37690	39440	39050	.09928
10.465	.652	422.06670	41410	40970	38720	40420	40120	. 09040
10.365	3.053	422.81370	39420	3889D	36670	38460	39100	. 11050
10.389	7.538	421.81500	37940	37530	35360	37060	36560	.12370
10.427	14.849	423.06080	40520	40000	37920	39560	39110	. 09550
10.499	30.104	422.58240	37870	37340	35070	36690	36290	.10860
10.519	44.754	423.43070	34840	34360	32800	33520	33320	. I 3940
10.519	47.323	423.18830	34400	-,33970	31430	33030	32850	. 14700
*****	GRADIENT	14623	.00378	.00410	.00417	.00400	.00398	.00440

### RUN NO. 797/ 0 RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00

ALPHA0	DZ	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAV
14.589	1.523	422.31830	50270	49910	46690	48660	49150	.21670
14.598	4.729	423.81470	49360	49200	45830	47990	48270	.21410
14.608	B.739	423.81780	50410	50170	46900	49030	49210	. 19780
14.637	16.314	422.65490	40740	40450	37520	39560	39590	.84180
14.669	31.043	422.19180	39780	39410	36840	38400	38640	.22110
14.697	46.253	423.31590	37790	37270	34790	36278	36690	.21350
14.695	61.364	423.43230	36680	35720	33420	34560	35480	.21540
	GRADIENT	.60000	.00000	.08080	.00000	.00000	.00000	.00000

DATE DI DEC 75

TABULATED SOURCE DATA - CA20

58.528 424.54290

.00000

GRADIENT

14.608

-.29230

.00000

PAGE 471

-1.45450

.00000

-.26410

.00000

			CVSO	747/1 01 5	l	ORBIT	IER DATA		(DGNGE	33) (	20 JAN 75 1
	REFERENCE O	ATA						PA	RAHETRIC	DATA	
SREF =	2690.0000 SQ.FT.	XMRP	- 1109.000	O IN.XO			Aì.	PHAC =	8.600	BETAC	<b>5.00</b> 0
LREF =	474.8100 IN.			0 IN.YO			_	V-1B =	.000	ELV-08	
BREF =	936.6880 IN.	ZMRP		0 IN.ZO				EVON =	5.000	HACH	<b>=</b> .600
SCALE =	.0300	4.4.2						TAO =	.000	PHI	- 7.500
SUALE -	.0300					•	0)		19.000	DY	= 10.000
		RUN NO.	753/ 0	RN/L = 3.25	GRADIEN	T INTERVAL	1.00/	4.00			
	ALPHAC	DZ	Q(PSF)	PBI	PB2	P84	LHLS	RHLS	PCA	<b>LV</b>	
	10.157	-4.055	423.05760	35730	35270	33140	35230	34810	-1.44	1948	
	10.183	-1.077	422.92950	36250	35790	33820	35720	35420	-1.44	+190	
	18.217	3.434	422.93250	34330	33980	31880	33830	33400	-1.44	:320	
	10.253	10.694	423.30320	32920	32480	30530	32360	31990	-1.44	1350	
	10.325	26.227	423.92750	32040	31640	30010	31690	31170	-1.45	5950	
	10.369	40.689	423.67980	28790	28530	26930	28330	27940	-1.44	+830	
	10.380	47.654	423.00160	32110	31900	30+00	31639	31310	-1.47	7900	
		GRADIENT	.00000	.00000	.00000	.00000	.08000	.00000	.00	0000	
		RUN NO.	754/ 0	RN/L = 3.25	GRADIEN	T INTERVAL	1.00/	4.00			
	ALPHAO	DZ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PC/	AV .	
	14.464	-1.0B3	423.17810	44440	44480	42480	44210	~.43030	-1.49	3340	
	14.477	1.853	423.68430	43700	43770	41790	43540	43160			
	14.493	6.138	423.67980	44290	44220	42300	43960	43560			
	14.525	13.721	424.79790	43110	42860	41170	42740	42350			
	14.575	28.934	424.17620	33510	32810	31660	33100	32450			
	14.596	44.022	423.17510	33370	32810	31839	32970	32590			

-.28330

.00000

-.27330

.00000

-.20270

.00000

ORIGINAL PAGE IS OF POOR QUALITY

CA20 747/1 01 51

ORBITER DATA

(DGH994) ( 20 JAN 75 )

#### REFERENCE DATA

#### PARAMETRIC DATA

				_	1109.0000	IN YO	ALFHAC	- 4.880	BETAC	=	.000
SREF	=	2690.0000 SQ.F		-			ELV-1B	000	ELV-OB		3.000
LREF	20	474.8180 IN.	YHRP	-		1N. YO	ELEVON		MACH		.600
BREF	=	936.6880 IN.	ZHRP	-	375.0000	IN.ZO			PHI		7.500
SCALE	_	.0300					BETAO	•			
SCALL	-	.0500					DΧ	000	ÐΥ	-	.000

RUN NO. 705/ 0 RN/L = 3.19 GRADIENT INTERVAL = -1.00	4.00	
--	------	--

ALPHAO	DZ	0(PSF) 423.55580	30490 30490	P82 30210	P84 32050	LHLS 31630	RHLS 30360	PCAV -,29580
10.477 10.470	781 1.431	423.82820	34488	34290	36030	35600	34280	33720
10.466	6.105	422.82890	31300	31180	32900	32420	31170 31710	30390 31150
10.472	13.569	423.57950	31890 28720	-,31700 -,28590	33420 30280	32650 29670	28610	27880
10.485 10.489	28.308 43.532	423.20500 423.07700	28570	28350	30110	29490	28410	27699
10.499	47.201	422.95640	26280	28000	29710	29080	28910 01736	27389 01872
	GRADIENT	. 10960	01769	01845	01800	01795	01730	u1072

### RUN NO. 704/ 6 RN/L = 3.19 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	ĐΖ	O(PSF)	PBI	P82	P84	LHLS	RHLS	PCAV
	6.448	423.33600	35950	35780	37120	37060	35680	35040
15.435		423.45800	33810	33640	35120	34980	33590	32970
15.428	9.304		32920	32800	34270	24130	32650	32150
15.423	12.875	423.20950	32260	3215D	33640	33520	32850	31520
15.412	20.640	422.83290		33590	35120	34860	33530	33030
15.415	35.108	423.70700	~.33740			32480	31040	30140
15.414	50.653	423.33000	31230	31050	32560		28680	27890
14.600	60.670	424.44820	28860	28390	30280	29920		28700
15.413	65.386	423.20550	29580	29430	31080	30890	29560	
	COADIENT	กกกกก	. 00000	. 00000	.08060	.00000	.00000	.00000

PAGE 973

DATE 01	DEC 75	TABULATED	SOURCE DA	TA - CA	750			(***	OC 113
			CA2B	747/1	01 51	ORBITER DATA	(DGN08	5) (20 J	JN 75 }
	REFERENCE D	ATA					PARAHETRIC	DATA	
SREF = LREF =	2690.0000 SQ.FT. 474.8100 IN. 936.6800 IN.	XMRP = YMRP = ZMRP =	.0000	1N.Y0		ALPHAC = ELV-1B = ELEVON =	4.000 .000 5.000	BETAC = ELV-OB = HACH =	.000 3.000 003.
SCALE =	.0300					BETAO = DX =	.080. 10.080	PHI -	<b>7.</b> 590 .080

	RUN NO.	6967 0 R	N/L = 3.25	GRADIENT	INTERVAL *	-1.00/	4.00	
ALPHAO	DZ	Q(PSF)	P81	PB2	PB4	LHLS	RHLS	PCAY
10.398	-1. <del>5</del> 50	424.46560	34410	34500	34280	34440	33800	31689
10.383	1.373		33230	33330	33090	33340	32660	30210
10.381	5.899		30050	30280	30010	30230	29630	27200
10.389	13.274		28870	29050	28700	28950	28410	25940
10.500	28.273		29170	29240	28990	29190	28620	26510
	43.578	•	29610	29570	29500	29690	29090	26880
10.420	48.459		29460	- 29370	29270	29430	28950	28700
10.422	40.420	463.31300						00000

10.422	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00800
	RUN NO.	695/ D RN	/L = 3.26	GRADIENT	INTERVAL -	-1.00/	4.00	
ALPHAO	DΖ	Q(PSF)	FBt	P82	P84	LHLS	RHLS	PCAV
14.697	1.100	423.96700	31530	31450	31260	31820	31110	28520
14.684	4.360	425.21350	28580	2B470	28190	28820	28080	25500
14.678	B. 649		29020	26920	28590	29250	28480	25940
14.673	16.181		30130	30090	29670	30350	29560	27070
14.676	31.098		33300	33200	38920	33400	32860	39210
14.664	46.169		32270	32030	31950	32430	31650	29210
14.686	61.197		33080	32880	32750	-,33220	32390	30020
17.000	GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000

ORBITER DATA

(DGN096) ( 20 JAN 75 )

#### REFERENCE DATA

# E DATA PARAMETRIC DATA

			XMRP	_	1109.0000	IN YO	ALPHAC =	8.000	BETAC	-	.000
		2890.0000 SQ.FT.		-		IN.YO	ELV-1B =	.000	ELV-08	•	3.000
LREF					375.0000		ELEVON =	5.600	HACH	•	.600
EREF	-	936.6900 IN.	ZMRP	=	379.0000	114.20	BETAO =	.000	PHI	-	7.500
SCALE	•	.0300					DX =	.000	DY	-	.000

### RUN NO. 702/ 0 RN/L = 3.21 GRADIENT INTERVAL = -1.00/ 4.00

ALPHA0	OZ	Q(PSF)	PBI	F82	PB4	LHLS	RHLS	PCAV
10.331	-1.339	422,95940	36470	36240	36030	36940	35950	33910
10.340	1.740	423.70860	34030	33900	33760	34500	33590	31520
• • • • • •	8.289	424.45290	35730	35460	35290	36150	35210	33150
10.363	13.805	423.95570	- 35290	35070	34950	35660	34810	32848
10.398	28.633	424.32700	39110	33900	- 33930	34440	33660	31840
10.462			30128	29950	29940	30590	29920	27630
10.485	43.486	424.07640		30080	30110	30650	29890	27820
10.463	47.086	423.08300	30340		40000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000		

### RUN NO. 703/ 0 RN/L = 3.20 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	P81	PB2	P84	LHLS	RHLS	PCAV
14.513	1.005	423.70700	34920	34680	35410	35840	34600	33150
14.522	9.003	423.45950	38020	37860	36680	39550	37770	36290
	A.390	424.57469	36620	36430	37630	-,37670	36360	35290
14.535	15.642	423.33450	35550	35650	36880	37000	35610	34600
14.550	,	423.58270	33660	33380	34720	34800	33330	32659
15.384	35.410		32560	32350	33590	33700	32250	31520
15.397	50.740	423.95100		29300	30630	30710	→.28420	28260
15.393	65.244	423.70390	29800			_00000	.00000	.00000
	COADIENT	. ຄວກຄວຄ	. 00000	. 00000	.00800	.00000	.00000	

and an expension of a second contract of

#### TABLE ATER COURCE DATA - CA20

PAGE 475

DATE DI DEC 75	TABULATED SOURCE DATA - CA20		
	CA20 747/1 01 SI	ORBITER DATA	(DGND97) ( 20 JUN 75 )
REFERENCE DA	LTA		PARAMETRIC DATA
SREF = 2690.0000 SQ.FT. LREF = 474.8100 IN. 8REF = 935.6800 IN. SCALE = .0300	XMRP = 1109.8000 IN.XO YMRP = .0000 IN.YO ZMRP = 375.0008 IN.ZO	ALPHAC ELV-18 ELEVON BETAG OX  GRADIENT INTERVAL1.00/ 4.0	= .000 ELV-08 = 3.000 = 5.000 HACH = .600 = .000 PHI = 7.500 = 10.000 DY = .600
ALPHAO 10.202 10.212 10.232 10.267 10.343 10.377	RUN NO. 683/ 0 RN/L = 3.27  OZ 0(PSF) P81  -2.846 425.3394030870  .552 424.8420030850  4.877 424.8435031970  12.472 424.4688031310  27.592 423.8449032490  42.540 424.9663031010  48.934 425.2166031010  GRADIENT .00000 .00000  RUN NO. 684/ 0 RN/L = 3.26	P82 P84 LHLS30670297803066030670 +.2958030410321603098031820313803007030960327503138032120310002984030660	RHLS PCAV302302714029960268803144028270306402745031650287103030027200303002720000000 .00000
ALPHAO 14.557 14.553 14.564 14.590 14.632 14.655 14.654	OZ Q(PSF) P81 -1.221 424.2157031310 1.801 424.0906036330 6.393 423.7153032570 13.985 424.3407033920 28.717 424.9608032420 43.772 423.7129031090 48.457 423.5992032480 53.011 424.4593030550 GRADIENT .00000 .00000	361203554036270 323603183032610 337203303033830 32303172032550 309303052031270 323603172032610	PHLS PCAY3084027830356903304031980290803190304003185029080305002776031910268903010027450 .00000 .00000

CA20 747/1 01 51

ATAC REFIERO

(DGN888) ( 29 JAN 75 1

STATE	DAT	7

#### PARAMETRIC DATA

SREF = LREF = EREF = SCALE =	474.8100 IN. 936.6800 IN.	,,,,,,	-	1109.0000 .0000 375.0000	IN.YO	ALPHAC = ELV-IB = ELEVON = GETAO =	4.030 .000 5.000 .000	BETAC ELV-O HACH PHI DY		.000 3.000 .600 7.500 10.000
---------------------------------------	------------------------------	--------	---	--------------------------------	-------	---	--------------------------------	-------------------------------------	--	--

 	CM141 -	7 75	GRADIENT	INTERVAL	=	-1.00/	4.00	

ALPHAO	DZ	O(PSF)	P81	PB2	P84	LHLS	RHLS	PCAV
	.254	423.95160	35210	36430	33930	33550	34540	. 18460
10.555		422.56490	32780	33900	31140	31570	32180	.20720
10.549	3.390		33070	34230	31490	31930	32520	. 19530
10.551	7.733	423.21030		34750	- 31880	32420	33069	.18710
10.556	15.481	423,70300	33550			30830	31440	. 18210
10.567	30.165	424.07740	32180	33130	39120		31170	.17710
10.572	45.459	422.20580	32030	33060	29830	38590		
10.573	47.787	422.98000	32260	33320	29390	30650	31370	.17710
,0		1.71.CO	00700	.00905	.002B <b>7</b>	.00757	.00751	.00719

## RUN NO. 793/ 0 RN/L = 3.32 GRADIENT INTERVAL = -1.00/ 4.00

ALPHA0	ΩZ	O(PSF)	PBi	F82	P84	LHLS	RHLS	<b>PCYA</b>
14.785	1.985	423.08590	44290	44530	40030	42130	43290	.29200
	4.790	422.83650	41780	42010	376SB	<b>~.3987</b> 0	40800	.27130
14.785	8,916	422.71450	40150	+.40450	36100	-,3 <del>9</del> 400	39160	.27320
14.694	16.371	422.21120	39310	38570	34390	35690.	37360	.26750
14.697 14.692	31.267	423.20550	37350	37600	33710	- 35780	36490	.25060
14.697	46.547	422.58840	35360	35260	31490	33400	34540	.25690
14.696	61.277	422.45590	33880	33250	29660	3108D	32990	.25940
14.650	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE OI DEC 75

14.611

59.694 423.67539

.04435

GRADIENT

-.28720

.08489

TABULATED SOURCE DATA - CA20

FAGE 477

-.27740

.0039B

-1.42240

.00215

	CA20	747/1 01 SI	1	ORBITER DATA		(DGN093) (	( 27 MAL 03
REFERENCE D	DATA				PA	RAPETRIC DATA	
SREF = 2690.0000 SQ.FT.	. XMRP = 1109.00	0D IN.XO			ALPHAC =	4.000 BETAC	000
LREF = 474.8100 IN.	YMRP = .00	00 IN.YO			ELV-IB =	.000 ELV-08	3.0[0
BREF = 936.6900 IN.	ZHRP = 375.00	00 IN. <b>ZO</b>			ELEVON =	5.000 MACH	630
SCALE = .0300					BETAO =	.000 PHI	• 7.500
					ox ≃	10.000 DY	<ul> <li>10.00B</li> </ul>
	RUN NO. 748/ 0	RN/L = 3.31	GRADIENT	INTERVAL = -1.0	0/ 4.08		
ALPHAO	DZ Q1P5F	) P81	P82	PB4 LHLS	RHLS	PCAV	
10.378	-1.632 424.1778	030490	32220	28709291	3029550	-1.41110	
10.397	1.664 424.0534	028790	30410	26530273	6027670	-1.38040	
10.394	6.264 424.0519	032780	34230	30400313	2031710	-1.42940	
10.402	13.375 424.5508	031300	32550	28640297	+030160	-1.42180	
10.423	28.632 424.9221	029450	30670	26820281	5028480	-1.42430	
10.434	43.683 424.6720	08968 0	30990	27220283	02385 08	-1.44820	
10.431	47.364 424.3021	027760	2 <del>9</del> 110	25220265	00835 80	-1.42620	
	GRADIENT .0000	00000.	.00000	.000. 00000.	00000.	.00000	
	RUN NO. 751/ 0	RN/L = 3.25	GRADIENT	INTERVAL1.0	0/ 4.80		
ALPHAO	DZ QCPSF:	) PB1	PB2	PB4 LHLS	RHLS	PCAV	
14.603	240 423.4237	040450	40330	37520397	5039660	-1.44690	
14.595	2.648 423.5518	039270	39100	36380387	1J38510	-1.44070	
14.596	7.191 423.1736	036620	36180	33590359	0035750	-1.43500	
14.595	14.612 423.5503	036170	35730	33190354	8035280	-1.43500	
14.603	29.756 423.17210	032289	~.31640	29550318	1031390	-1.43120	
14.61	44.626 422.79840	031230	30540	28410385	3039230	-1.43000	

-.28010

.08426

-.25960

.00395

-.27910

CA28 747/1 01 SI ORE

ATAG RETIERO

(DCN990) ( 20 JAN 75 )

REFERENCE	DATA
-----------	------

 SREF
 2690.0000 SQ.FT.
 XMRP
 \$189.0000 IN.XO

 LREF
 474.8100 IN.
 YMRP
 .0000 IN.YO

 BREF
 935.5800 IN.
 ZMRP
 375.0000 IN.ZO

 SCALE
 .0300

ALPHAC = 8.080 BETAC = .000 ELV-1B = .000 ELV-0B = 3.000 ELEVON = 5.000 HACH = .E00 EETAO = .000 PHI = 7.500 DX = .000 DY = 10.000

PARAMETRIC DATA

### RUN NO. 799/ 0 RN/L = 3.28 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	P81	Pa2	P84	LHLS	RHLS	PCAV
10.357	035	423.18520	38530	39160	38040	37670	37160	. 11990
10.375	3.161	422.43690	37540	37660	35470	37120	35620	. 12810
19.398	7.497	423.06080	38600	39100	35040	37730	37230	.12500
10.435	14.798	423.69250	38160	37730	35530	37180	36690	.12580
10.494	29.812	421.93860	35590	35130	32970	34500	34200	. 14070
10.518	45.359	422.30480	36240	35850	33540	34880	34670	.13750
10.522	47.338	423.05450	36730	35460	33190	34430	34270	.13500
	CRANIENT	23353	.00165	.00163	.00178	.00172	.00169	.00257

### RUN NO. 798/ 0 RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PBI	P82	PB4	LHLS	RHLS	PCAV
14.594	1 481	422.44640	48270	48030	44350	46480	47190	.24050
19.602	4.549	421.81550	46580	46410	42700	-,44870	45380	.24490
14.617	0.6 <b>57</b>	422.19930	44590	44530	40940	43040	43490	.23930
14.642	16.518	422.69490	42680	42720	39400	41520	41678	.23660
14.671	31.266	422.69840	38600	38250	35470	37240	37360	.23740
14.697	46.167	423.06710	37570	37210	34500	38089	36420	.22830
14.628	61.030	423.18990	35580	34750	32340	33640	34480	.22730
	GRADIENT	.00880	.00000	.00800	.00000	.00000	.00800	.00000

DATE OI DEC 75

TABULATED SOURCE DATA - CARD

CARD 747/1 01 St ORBITER DATA

( 27 MAL 05 ) ( 180MAD)

PAGE 479

#### REFERENCE DATA

CDCC	*	2690.0000	SQ.FT.	<b>ANNE</b>	=	1109.0020	IN.XO
		474.8100		YMRP	=	.0800	IN.YO
AREF				ZHRP		375.0000	IN.20
SCALE		.0300					

PARAMETRIC DATA

ALPHAC	•	8.000	BETAC	•	.000
ELV-18		.000	ELV-08	•	3.000
ELEVON		5.000	HACH		.600
	=	.000	PHI	•	7.500
DX	•	10.000	DY	•	10.000

D- D-1 - N-O	7497 0	RN/L =	3.28	GRADIENT	INTERVAL	-1.00/	4.08	

ALPHAO 10.211 10.231 11.254 10.284 10.350 10.390	DZ -2.473 .684 5.170 12.734 27.679 42.627	Q(PSF) 424.05190 423.30520 423.29870 423.04710 423.29870 423.54580	PB1328503137031960316763233030640	P8233460319003242031970324803093029440	P8429380278402835028010297502739036020	LHLS31690302903084030470311402955028270	RHLS31980305003111030640313102959028410	PCAV -1.37600 -1.36970 -1.37970 -1.38040 -1.41490 -1.42310 -1.42560
10.396	47.827	424.41700	.29310 00000	29440 00000	38020	.00000	000000	.00000

# RUN NO. 750/ 0 RN/L = 3.25 GRADIENT INTERVAL - -1.00/ 4.60

ALPHAO 14.458 14.468 14.487 14.517 14.559	DZ -1.845 1.617 6.361 13.973 28.740 41.006	Q(PSF) 423.54730 423.42070 424.41700 424.41390 423.91810 423.54430	P81 44880 41780 43700 42150 35470 35580	P824513042020437704202035090	F84 41340 38320 40310 38830 33250 32450	LHL5 43960 40970 42930 41340 35560 34740	FHLS442404121043030414103548034610	PCAV -1.47020 -1.44690 -1.48400 -1.46940 -1.446950
14.517	13.973 28.740	424.41390 423.91810	42150 35470	36050	33250	35660	35480	-1.44680

CA20 747/1 01 51

ORBITER DATA

(DGN892) ( 28 JAN 75 )

		 CATA
11.55	الشد وست م	 DATA

SREF = 2690.0000 SO.FT. MMRP = 1109.0000 IN.XO LREF = 474.8100 IN. YIERP = .0000 IN.YO EREF = 933.6800 IN. ZEOP = 375.0000 IN.ZO SCALE = .0300

#### PARAMETRIC DATA

ALPHAC =	4.000	BETAC	-	5.000
ELV-IB =	.000	ELV-08	#	3.000
ELEVON =	5.000	MACH	•	.600
BETAD =	.000	PHI	•	7.500
กน 🖷	.000	DY		10.000

### RUI NO. 700/ 0 CU/L = 3.37 CRADIENT INTERVAL = -1.00/ 4.00

ALFHAD	DΖ	01907)	ຄວາ	P82	P84	LHLS	RHLS	PCAV
10.577	150	h22.03330	34160	35520	34560	33520	34000	. 17520
10.503	3.759	100.46590	341100	35788	34730	33580	34330	.17080
10.534	7.765	423.70300	33380	34680	33710	32600	33260	. 17020
0.551	:5.573	422.58396	5i8i0	33060	32000	31020	<b> 31640</b>	. 17659
10.569	30.037	422.08770	31890	33130	31830	30950	31570	. 16010
10.574	45.241	423.20130	31740	~.33320	31430	30650	3130D	. 16330
10.579	47.780	422.70550	32850	34620	32450	31690	32380	. 15320
	COMPRENT	17555	00052	00073	00040	08017	00093	00124

### RUN NO. 7597 0 FOUL = 3.31 GRADIENT INTERVAL = -1.007 4.00

ALPHAO	DZ	O(PEF)	FB1	F82	PB4	LHLS	RHLS	PCAY
14.741	1.533	ves.33180	41630	41750	-,37698	39750	40660	.26120
19.723	4.522	922.03050	42070	42140	38090	40230	41008	.25680
14.712	8.923	423.78140	42650	42850	38660	-,46910	41610	.24740
14.701	16.684	922.7870D	41330	41428	37290	39560	+.40260	.24950
14.653	31.245	423.70300	37230	37270	33489	35590	36150	.26380
14.650	96.635	988.70700	35360	35070	31370	33340	34270	.25940
14.699	61.405	423.20250	34320	33710	30180	31870	33269	.25910
	GRADIENT	.00000	. 00000	.00000	.00000	.00000	.00000	.00000

DATE OF DEC 75

TABLE ATED SOURCE DATA - CARD

GRADIENT

. 15995

-.00071

PAGE 481

DATE OI DEC 75	TABULATED	SOURCE D	ATA - CAZU							PAUL	401	
		CASO	747/1 01 SI		ORBITE	R DATA		(DGH093)	( 20	HAL D	75 J	
REFERENCE D	ATA						PA	RAHETRIC O	ATA			
SREF = 2620.0000 SQ.FT.	XHRP =	1109.000	0 IN.XO			AL	PHAC =	4.800 B	ETAC =		5.000	
LREF = 474.8100 IN.	YHRP =		IN.YO			EL	V-18 =	.660 E	LV-CB 4		00D.L	
BREF = 936.6800 IN.	7/4RP =					EL	EVON =	5.000 H	ACH .		.600	
SCALE = .0300						95	TAO =	.000 P	HI +		7.500	
DOUTE - 10200						DX	=	10.000 D	γ .	• 1	0.000	
	RUN NO. 7	7567 0 1	RN/L = 3.27	GRADIENT	INTERVAL =	-1.00/	4.00					
ALPHAO	ΩZ	Q(PSF)	PB1	F82	P84	LHLS	RHLS	PCAV				
10.407	-1.572	424.31160	29230	29110	~.27560	29070	28410		-			
10.397	1.296	424.06440	31520	31250	29840	31280	30640					
10.396	5.872	424.93640	29300	~.29110	27560	29000	28410					
10.403	13.650	424.31160	29450	29180	27730	29130	28480					
10.415	28.531	423.68580	27980	27820	26360	27660	27809					
10.423	43.642	424.18880	28050	28910	26420	27720	27130					
10.426	47.246	424.93320	30860	30800	29150	30410	29960		-			
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.0000	Đ			
	RUN NO. 1	759/ 0	RN/L = 3.24	GRADIENT	INTERVAL -	-1.00/	4.00					
ALPHAO	DZ	Q(PSF)	P81	P85	P84	LHLS	RHLS	PCAV				
14.648	347	424.43590	31300	31380	29950	31320	30840	-1.4099	D			
14.628	2.762	424.933?0	31520	3:380	30290	3!630	30970					
14.615	7.144	423.30920	32850	32480	31430	32670	32120					
14.606	14.929	423.06050		34230	33020	34260	33730					
14.610	29.445	422.93100		36050	35240	36330	35690					
14.615		423.30620		33460	32850	33890	33260					
14.618	59.607	423.05760		38470	29950	30590	30570					
			00000	00000	20100	00.00	000110					

.00000

-.00109

-.00100

-.00042

-.00827

(DGMD94) ( 80 JAN 75 1 ORBITER DATA CA20 747/1 01 51

-.36290

-.34740

.00000

.22860

.00000

REFERENCE D	ATA		PAF	RAMETRIC DATA	
SREF = 2690.0000 SQ.FT. LREF = 474.8100 IN. BREF = 936.6800 IN. SCALE = .0300			ALPHAC = ELV-1B = ELEVON = BETAO = OX =	.000 ELV-08 = 5.000 HACH = .000 PH1 =	5.000 3.000 .600 7.500 0.000
	RUN NO. 809/ 0 RN/L = 3.2	8 GRADIENT INTERVAL -	-1.00/ 4.00	•	
ALPHAO 10.383 10.384 10.408 10.448 10.505 10.523	DZ         Q(PSF)         PB1          121         422.05920        39780           3.280         422.06070        39640           7.360         423.55660        40230           15.415         422.30930        39340           30.092         422.60420        35800           45.305         422.60290        35870           47.357         423.55030        36610           GRADIENT         .00044         .00041           RUN NO.         7957         0         RN/L         =         3.3	PB2 PB43941037410391503707039870378103876036840379903610035520334803624034050 .00076 .00100	LHLS RHLS3989039510397103817039440378403755037840375503790034800343303535035080 .00053 .00100	.10740 .09920 .10880 .10610 .13250	
ALFHAD 14.609 14.604 14.610 14.633 14.673	DZ Q(PSF) PB1 1.223 422.0245050120 4.295 423.2025048130 9.099 423.3174047760 16.424 421.8195046280 31.163 423.0671039930	P82 P8450040459504816043840477804373046280425903948036500	LHLS RHLS480504921046220470604603046530447504511039340366403590036280	.24370 .23240 .21290 .23930	

-.37080

-.35130

.00000

-.37420

-.35870

.00000

46.448 422.81640

61.101 423.43380

GRADIENT

.00000

-.34050

-.32400

.000002

-.35900

-.33890

.00000

14.696

DATE DI DEC 75	TABULATED	SOURCE DA	TA - CA20							PAGE	483
		CA20	747/1 OI SI		ORB17ER	DATA		(DGN09	5) ( i	NAT 03	75 1
REFERENCE DA	TA						PA	RAHETRIC	DATA		
SREF = 2690.0000 SQ.FT.	XMRP =	1109.0000	IN.XO			ALPHA	c =	8.080	BETAC	•	5.000
LREF = 474.8100 IN.	YMRP =	.0000	IN.YO			ELV-I	8 =	.000	ELY-08	-	3.000
BREF = 936.6800 IN.	ZMRP *	375.0000	IN.20			ELEVO	N =	5.080	HACH	-	.600
SCALE = .0300						BETAO		.000	PHI	_	7.500
						DX		10.000	DY	=	10.000
ALPHAO	RUN NO. 7 DZ	157/0 R Q(PSF)	PB1	GRADIENT PB2		-1.00/ 4. LHLS	00 RHLS	PCA	v		
10.229		424.68460	33510	33720			32860				
10.238		423.93690	33290	-,33260			32520		370		
10.254		423.06060	32780	-,32740			31980	-1.42	B70		
10.286		424.05970	33070	32870	31260 -	32610	32180	-1.44	510		
10.352		424.18090	31370	31060	29660 -	30960	38430	-1.46	010		
10.383		423.68430	30640	30470	28910 -	30238	29690	-1.46	B30		
10.385		423.B0930	27760	27690	25850 -	27360	26800	-1.44	440		
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00	000		

RIN NO.	758/ 0	RN/i. *	3.26	GRADIENT	INTERVAL		-1.00/	4.00	
---------	--------	---------	------	----------	----------	--	--------	------	--

ALPHA0	DZ	Q(PSF)	PBI	P82	P84	LHLS	RHLS	PCAV
14.510	~1.170	424.18090	38830	39160	37120	38650	38240	-1.46700
14.504	1.917	424.55710	44370	44800	42590	44030	43900	-1.48520
14.507	6.286	423.55930	39940	40330	38320	39630	39390	-1.43810
14.530	13.648	424.18090	42740	-,42990	41118	42380	42150	-1.49030
14.567	29.243	424.31800	39490	39290	38030	39140	38650	-1.47710
14.594	43.847	424.80260	34470	-,33980	32910	34010	33530	-1.46450
14.605	58.656	424.67930	30050	29370	28410	29190	29360	-1.43750
	GRADIENT	.00008	.00000	.00000	.00000	.00000	.00080	.08080

CA20 747/1 01 S1 ORBITER DATA (DGN896) ( 20 JAN 75 )

REFERENCE DATA

#### PARAMETRIC DATA

	2690.0000 474.0100	XMRP YMRP		1109.0000		ALPHAC ( ELV-1B (		4.000 000.	BETAC ELV-08		-5.000 3.000
	936.6900	ZHRP	=	375.0000	IN.ZO	ELEVON	•	5.000	MACH	•	.609
SCALE	.0300					BETAO :	*	-5.000	PHI	-	7.500
						DX	•	.800	DY	-	10.000

	RUN NO.	8047 0 RN7	L = 3.28	GRADIENT	INTERVAL .	-1.80/	4.60	
ALPHAO	OZ	Q(PSF)	PB1	P82	P64	LHLS	RHLS	PCAV
10.581	.639	422.27510	51020	48360	48330	47510	49480	.84650
10.577	3.578	422.15310	50870	-,48108	48050	47320	49210	.85150
10.576	7.654	423.02290	51750	49210	46960	48350	50220	.84140
10.583	15.309	422.77420	51900	-,49340	49020	48480	50830	. 83580
10.601	GSB.0E	423.14410	52050	49530	49130	48730	51030	.03890
10.617	45.347	422.52400	51980	49600	49020	48790	50960	.65520
10.614	47.836	422.02880	51900	-,48470	46850	48578	50760	.88039
	GRADIENT	04150	.00051	.0008B	.00095	.80085	.00092	.00170
	RUN NO.	805/ 0 RN/	L * 3.29	GRADIENT	INTERVAL .	-1.007	4.00	
AL BUAS	D7	OUBSET	en:	PR2	PR4	LHLS	RH1S	PCAV

ALPHAG	DZ	Q(PSF)	PBI	PB2	PE4	LHLS	RHLS	PCAY
14.802	1.971	423.27310	53080	50700	50500	50070	51640	1.03360
14.786	4.974	423.39740	52930	50500	50270	+.49890	51370	1.03170
14.775	9.438	422.27960	54410	51860	51610	+.51170	52850	1.00340
14.774	16.557	423.02610	51750	49140	49250	48540	50160	1.00660
14.779	31.753	422.77428	53750	51090	51410	50500	51970	.98840
14.774	47.052	422.64360	-,50940	48100	46620	47570	49150	1.01410
14.772	61.439	422.15010	49390	46610	47310	46040	47670	1.02980
	GRADIENT	.00000	.00000	.00000	.00000	.08000	.00000	.09869

----

DATE OI DEC 75

TABULATED SOURCE DATA - CARO

GRADIENT -.28211

.00145

PAGE 485

DATE OF DEC 15	INDOCATED BOOKER	AVIV - AVER							
	CYSO	747/1 01 SI	•	08911	ER DATA		(DGN097)	( 20 .	JUN 75 I
REFERENCE C	DATA					PA	RAPETRIC DATA		
SREF * 2690.0000 SQ.FT.	, XMRP = 1109.8	000 IN.XO			A	LPHAC *	B.000 BETA	C =	-5.000
LREF = 474.8100 IN.		000 IN.YO			E	LV-18 =	.000 ELV-	OB =	3.080
BREF = 936.6800 IN.	*****	000 IN.ZO			E	LEVON =	5.000 HACH		.600
SCALE = .0300					8	ETAO =	-5.000 PHI	-	7.500
30400					D	x -	.000 DY	-	10.000
	RUN NO. 811/0	RN/L = 3.26	GRADIEN	T INTERVAL	= -1.00/	4.00			
ALPHAO	DZ QIPS	F) P81	P82	PB4	LHLS	RHLS	PCAV		
10.393	093 421.389	2054260	51860	52720	52020				
10.413	2.882 422.505	1055080	52580	53460	52760				
10.439	7.530 422.130	4054550	52060	52890	52210				
10.483	15.189 423.126	7055910	53290	54686	53430				
10.527	29.943 421.883		52770	53460	52880				
10.564	45.352 422.383		50440	51070	50560				
10.566	47.556 422.005		50960	51580	51050				
	GRADIENT .375	1000276	00242	00249	00249	00205	00235		
	RUN NO. 810/ 0	RN/L = 3.26	GRADIEN	T INTERVAL	= -1.09/	4.00			
CAHQJA	DZ Q1PS	SF) P81	P82	PB4	LHLS	RHLS	PCAV		
14.680	.829 422.764	18051240	49080	49530	49150	-,50700			
14.684	3.926 421.897	0050790	48620	49970	48730	50020			
14.700	7.951 422.888	50054120	51660	52430	51900				
14.711	15.864 421.761	4053450	51090	51860	51110				
14.732	30.777 421.869	35054260	51860	52950	51900				
14.745	45.232 422.509	98052420	49790	51180	49950				
14.748	60.428 422.26	6051530	48880	50440	48970				
					00.00		00007		

00149

.00136

.00149

.00220

14.782

14.778

14.777

31.651 421.77340

47.097 422.68070

61.642 423.01980

.00000

GRADIENT

CA20 747/1 01 51 ORBITER DATA (DCH2098) ( 20 JAN 75 ) REFERENCE DATA PARAMETRIC DATA 2690.0000 SQ.FT. XMRP - 1109.0000 IN.XO ALPHAC -4.000 BETAC . .000 LREF = 474.8109 IN. YMRP . .0000 IN.YO ELV-18 -.000 ELV-08 -3.000 EREF -938.6900 IN. ZMRP -375.0000 IN.ZO ELEVON . 5.000 MACH . .600 SCALE = .0300 SETAO . -5.000 PHI 7.500 ĐΧ .000 DY 10.000 RUN NO. 803/ 0 RN/L - 3.89 GRADIENT INTERVAL = -1.88/ 4.88 ALPHAO DZ O(PSF) PB! P82 P84 LHLS RHLS PCAY 10.569 .754 421.77780 -.49460 -.46940 -.46970 -.45920 -.48070 .66400 10.581 3.692 421.40420 -.49240 -.46740 +.46580 -.45740 -.47870 .66840 10.585 7.812 423.02130 -.51020 -.48360 -.48330 -.47230 -.49350 .83950 10.597 15.159 422.65150 -.50350 -.47720 -.47540 -.46590 -.49080 .83950 10.599 28.483 422.77420 -.50280 -.47650 -.47420 -.46590 -.49210 .B3950 10.609 45.607 423.02290 -.51310 -.48820 -.48390 -.47690 -.50220 .85460 10.609 47.846 422.64520 -.51160 -.48820 -.48280 -.47510 -.50020 .85590 GRADIENT -. 12761 .00075 .00068 .00059 .00061 .00137 .00153 RUN NO. 806/ 0 RN/L = 3.28 GRADIENT INTERVAL - -1.80/ 4.00 ALPHAO ĐΖ Q(PSF) PBI P82 P614 LHLS RHLS PCAV 14.607 2.070 423.26640 -.52640 -.50310 -.51160 -.49836 -.51440 1.00600 19.795 5.159 422.77270 -.53300 -.50890 -.51640 -.50440 -.52040 1.00530 14.785 9.249 921.89400 -.50570 -.48040 -.48390 -.49150 -.47630 1.02980 14.782 17.214 422.76790 -.51380 -.48880 -.49072 -.46480 -.49890 1.08030

-.47910

-.48170

-.47390

.00000

-.40160

-.48620

-.48110

.00000

-.47510

-.47810

-.47140

.00000

-.46910

-.49080

-.48410

.00000

1.00030

1.00030

1.02350

.00000

----

-.50350

-.50720

-.49980

DATE DI DEC 75

TABULATED SOURCE DATA - CARO

CA20 747/1 01 51

ORBITER DATA

PASE 487 (DGH0991 ( 20 JAN 75 )

DECEDENCE	A . T .	

## PARAMETRIC DATA

SREF LREF BREF SCALE	-	2690.0000 474.8100 936.6900	IN.	XMRP YMRP ZMRP	-	 IN.YO	ALPHAC ELV-18 Elevon Betad	:	8.000 .000 5.000 -5.000	BETAC ELV-08 HACH PHI	-	.000 3.000 .600 7.500
							nx n	*	-000	DY	•	10.000

## RUN NO. 812/ 8 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	ΩZ	Q(PSF)	PBI	P82	P84	LHLS	RHLS	PCAV
10.406	590	422.25790	54780	52450	53510	52760	54800	. <b>77</b> 550
10.423	3.005	422.63260	54630	52250	53290	52640	54470	.77240
18.446	7.573	422.38390	54410	51930	53000	52390	53990	.77420
10.428	15.463	422.75220	54930	52320	53290	52700	54330	.77360
10.541	30.172	421.51280	53380	50030	51868	51170	52780	.79628
10.553	44.935	421.51280	53600	51150	52090	51410	52920	.81680
10.567	47.483	422.37920	- 54560	52190	53060	52450	53930	.61250
10.357	COADIENT	10399	.00042	.00855	.00061	.00033	.00092	00086

# RUN NO. 809/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	P81	P82	P84	LHLS	RHLS	PCAV
14.690	.680	422.38860	52860	50760	51290	50680	52510	.98400
14.694	3.893	421.51888	51980	+.49850	50380	49700	51370	.99280
14.701	8.089	422.14110	52570	50440	50950	50440	51700	.98150
14.719	15.576	422.89280	53300	51020	51690	51050	52180	.95070
19.734	30.590	422.01150	53820	51350	52320	51480	52510	.95760
14.751	45.433	422.25950	52790	50310	51350	50380	51370	. 97580
14.752	60.072	422.26260	51680	49140	50380	49150	50160	.99840
14.755	GRADIENT	26962	.00293	.00303	.00303	.00326	.00390	-00293

ORIGINAL: PAGE IS OF POOR QUALITY

( 63 JAN 75 ) ORBITER DATA CA20 747/1 01 51

		MAE.	

### PARAMETRIC DATA

LPEF	•		XHRP YMRP ZHRP	1109.0000 .0000 375.0000	IN.YO	ALPHAC = ELV-18 = ELEYON = EETAO =	.009 5.009 5.000	MACH PHI	•	5.000 3.000 .600 7.500
	_	.0300				ov -	000	UA	=	10.008

## RUN NO. 802/ 0 RN/L = 3.31 GRADIENT INTERVAL = -1.00/ 4.60

ALPHAO	ÐZ	Q(PSF)	PB:	P82	P84	LHL5	RHLS	PCAV
10.632	.542	422.53020	46440	44210	46000	42800	45850	.81130
10.612	3.365	422.89780	49320	46680	48330	45490	48000	.60190
18.597	7.664	422.53160	48280	45510	47140	44030	47130	.81380
18.597	15.623	423.27150	49320	46480	47940	44788	48340	.81630
10.604	30.599	422.27660	48280	45250	46460	43350	47460	.83280
10.607	45.321	422.52400	49320	46610	47370	44700	48470	.83540
10.608	47.816	422.02650	49699	47000	47650	45120	48819	.83700
	GRADIENT	.12900	01013	00869	00819	~.00946	00758	00331

## RUN NO. 807/ 9 RN/L = 3.28 GRADIENT INTERVAL = -1.80/ 4.60

ALPHAO	02	O(PSF)	F81	PB2	PB4	LHLS	RHLS	PCAV
14.862	2.028	421.52330	49980	47720	47710	47380	49350	.92310
14.031	4.948	422.64050	51380	~.49210	49250	+.48850	50430	.94380
14.007	9.169	422.89390	51839	49400	49470	46970	50630	.96330
14.793	16.781	421.39670	49930	47330	47540	46960	48470	.63150
14.783	31.665	422.26890	50790	48100	48560	47750	49150	.99408
14.782	46.800	422.64650	49760	47280	47710	46830	48280	.98460
14.777	61.889	423.00970	49760	47008	47710	46710	48140	1.01470
•	GRADIENT	.00080	.08000	.00000	.00800	.00000	.00000	.00000

DATE BI DEC 75

TABULATED SOURCE DATA - CA20

OPRITER DATA

(DGH101) ( 20 JAN 75 )

.00000

.00000

PAGE 489

		CASD	747/1	01 51		ORBITER	R DATA		(DGM1011	1 20	JAN	75 )
REFERENCE D	ATA							PAI	RAMETRIC DA	FA.		
REFERENCE	AIN .											
SREF - 2690,0000 SQ.FT.	XMRP =	1109.000	D IN.XO					LPHAC =		TAC *		5.000
LREF = 474.8100 IN.	YMRP =	.080	O IN.ÝO					LV-18 =		V-0B •		3.000
BREF = 935.6800 IN.	ZHRP -	375.000	0 IN.20					LEVON -	5.000 HA			.600
SCALE * .0300							_		-5.600 PH			7.500
							0	X =	.000 DY	•	- 1	10.080
	RUN NO.	013/ 0	RN/L =	3.25	GRADIENT	INTERVAL -	-1.00/	4.60				
ALPHAO	DZ	Q(PSF)	281	1	PB2	PB4	LHLS	RHLS	PCAV			
10.452	442	421.76140			51410	53860	52090	53930	.71270			
10.446	3.690	421.63940		080	48990	50330	49580	50830				
10.457	7.446	421.76290	51	660	43148	50500	49770	51180				
10.492	15.406	422.63420	58	2120	49400	50780	-,49950	51580				
10.544	30.322	422.13200	51	1750	49010	50330	49460					
10.565	44.966	422.62790	52	2340	49720	50900	50010					
10.569	47.470	421.63490	54	+560	51990	53230	52330					
•=	GRADIENT	03454	.00	0711	.00716	.00773	.00711	.80878	.01084			
	RUN NO.	809/ 0	RN/L =	3.20	GRADIENT	INTERVAL =	-1.00	4.00				
ALPHAO	OZ	Q(PSF)	PBI	ı	PB2	PB4	LHLS	RHLS	PCAV			
14.737	1.500	421.89180	5	3750	51600	52260	51410					
14.727	4.732		-,5	3450	51280	51750	5099					
14.725	9.125		5	3530	51020	51470	-,50746					
14.735	16.820		49	9540	47070	47540	4E83					
14.755	31.671	423.00720	5	3160	50700	51290	5031					
14.761	46.564	422.63730	5	1990	49480	50210	4909					
14.756	61.712	422.36540	)41	8550	-,46030	47140	- 4590					
					00000	00000	<b>ስባስስ</b>	10000	10000			

.00000

.00000

.00000

.00000

.00000

GRADIENT

CARD 747/1 01 S1 ORBITER DATA (DGN102) ( 20 JAN 75 )

### REFERENCE DATA

#### 4.080 BETAC --5.000 ALPHAC = SREF = 2699.8000 SQ.FT. XRRP = 1109.0000 IN.XO 3.000 ELV-18 = .008 ELV-08 -YMRP = .0000 IN.YO LREF = 474.8100 IN. 5.000 MACH -.600 ELEVON -ZHRP = 375.0000 IN.ZO BREF - 935.6800 IN. 7.500 SETAO = -5.000 PHI .0300 SCALE = .000 DY 10.000 DX =

# RUN NO. 815/ 8 RN/L = 3.26 GRADIENT INTERVAL = -1.09/ 4.00

ALPHAO	DZ	Q(PSF)	PBI	P82	PB4	LHLS	RHLS	PCAV
14.790	1.983	423.60400	52710	50370	52430	50860	52450	1.02100
14.773	4.881	422.25550	51750	49340	51470	49640	51230	1.02600
14.771	9,859	422.01000	50060	47520	49700	47750	49480	1.01548
14.776	6.952	422.63260	50130	474E0	49810	47630	49350	.99720
14.773	31.582	422.25540	49460	46740	49250	46950	48610	1.00850
	46.769	422.50570	49210	45380	47940	45490	47190	1.01030
14.769		422.39230	47250	44410	47080	44580	46120	1.04110
14.769	61.866		.00800	.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00800	.00000		.00000	,		

CARD 747/1 01 S1 ORBITER DATA (DGN103) ( 20 JAN 75 )

PARAMETRIC DATA

## REFERENCE DATA

## PARAMETRIC DATA

SEEF	_	2890.0800 SQ.FT.	YMOD	1109.0000	IN.XO	ALPHAC	•	4.000	BETAC	•	.003
LREF			YMRP		IN.YO	ELV-18	-	.000	ELV-08	•	3.000
		936.6908 IN.	ZMRP	375.0000		ELEVON	=	5.000	HACH	•	.600
Ç1.44	<b>9</b>		Z. UVI	3.3.0000	1	9ETAO		-5.000	PHI		7.500
SCALE	=	.0300				ĐΧ	=	.000	DY	*	10.000

# RUM NO. 814/ 0 RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	O(PSF)	FBI	P82	P84	LHLS	RHLS	PCAY
14.793	2.161	422.25400	~.50790	48360	50330	46670	50220	1.00600
14.782	5.231	422.01080	50350	47780	49930	48180	49690	1.02170
14.771	9,123	421.38630	52710	50310	52490	50680	51840	.99240
14.765	16.758	421.75990	50650	48170	50440	48610	49690	.98330
19.769	31.625	422.50510	51240	48620	51070	48910	50160	.97830
14.767	46.769	427.50828	47550	-,44800	47310	45120	-,46450	1.01410
14.766	61.571	42. 8B500	49760	47000	49640	47260	48540	1.00850
	GRADIENT	.00000	.00000	.00000	.03030	.00000	.60888	.00000

DATE DI DEC 75

TABULATED SOURCE DATA - CA28

ORBITER DATA CA20 747/1 OI SI

(DGN104) ( 20 JAN 75 )

FAGE 491

## REFERENCE DATA

### SREF - 2690.0000 SQ.FT. XHRP - 1109.0000 IN.XO .0000 IN.YO YMRP = LREF = 474.8180 IN.

BREF - 936.6800 IN. . 0300 SCALE =

ZMRP = 375.0000 IN.20

PARAMETRIC DATA

ALPHAC	•	4.000	BETAC	•	-5.000
ELV-1B	=	.000	ELV-08	•	3.000
ELEVON		5.000	HACH	-	.600
BETAO		-5.00)	PHI	•	.000
OX		10.030	ĐΥ	•	.000

### RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 830/ 0

ALPHAO	0Z	Q(PSF)	PB1	P82	P84	L+LS	RHLS	PCAV
10.325	-1.343	422.09090	-,53450	54260	50850	50490	54940	-1.09460
10.312	1.825	422.46540	-,56110	55660	52960	52870	57230	-1.12410
10.308	6.300	422.34110	-,55300	55760	51880	52020	56560	-1.11530
10.313	13.860	421.59340	-,53820	54070	50170	50430	54880	-1.09590
10.313 10.331 10.341	13.660 28.680 43.891 GRADIENT	421.96910 421.96910 421.96490	54040 54040 53010	54070 54070 52900 .00000	50650 46860 00000	50680 49700 .00000	55210 55210 54140	-1.10530 -1.11030 -00000

### RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 835/ 0

ALPHAO	DZ	Q(PSF)	P81	PB2	P84	LHLS	RHLS	PCAV
14.692	1.273	422.69400	52490	50240	48400	48780	53870	-1.09650
14.668	4.371	421.59650	53450	51350	49310	49940	53800	-1.11280
14.657	8.916	421.72410	53230	50960	49030	49640	53130	-1.10780
14.654	16.303	421.22360	50650	48620	46520	47320	50500	-1.12840
14.657	31.569	420.59570	50430	48308	46120	46950	50939	-1.13610
14.663	46, 389	420.97640	52540	50370	48570	49210	52250	-1.17050
14.672	61.453	420.73080	46510	45840	44360	44940	47740	-1.17860
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00800

CA20 747/1 01 SI

ORBITER DATA

(DCH105) ( 23 JAN 75 )

DE	FF	RF	NCE	DA	TA

SREF = 2690.0000 SQ.FT. XMRP - 1109.0000 IN.XO

LREF = 474.8100 IN. YMRP = .0000 IN.YO

BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO

SCALE = .0800

ALPHAC = 8.000 BETAC = -5.000 ELV-1B = .000 ELV-0B = 3.000 ELEVON = 5.000 MACH = .600 BETAO = -5.000 PHI = .000 OX = 10.000 OY = .000

PARAMETRIC DATA

# RUN NO. 841/ 0 RM/L = 3.28 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 10.256 10.307 10.328 10.359 10.437	0Z -3.049 020 4.578 12.050 27.169 41.992	Q(PSF) 421,59550 422,34430 420,97190 420,64690 420,72330 422,34110 .00080	P81 55748 56330 55080 54860 54410 55670	P82548505537053640536605310054130	F84639805427053020527906245053700 .00080	-53970 -54280 -53000 -52750 -63390 -53610 -00000	84.5 58710 58240 56760 56630 56020 57370	-1.17750 -1.20450 -1.16660 -1.17560 -1.17610 -1.15010
	PAD≀ENT.	.00000	.00000	.00000				

# RUN NO. 836/ 0 RN/L = 3.31 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 14.545 14.535 14.550 14.571 14.610 14.638	0Z 769 2.466 7.114 14.418 29.342 44.463 59.174	Q(PSF) 422.46860 422.09400 422.09240 421.72090 420.72330 421.97440 421.72650	PB153380526405249049840509405131050800	P8253290519305161048690494704953048560	P84 -,52820 -,50910 -,50450 -,47780 -,48900 -,46970 -,46570	LHLS5980497004939046950479904830047750	RHLS55010529205298050100511705124050800	PCAV -1.16620 -1.16870 -1.15870 -1.13860 -1.16680 -1.17000 -1.22400 00078
14.650	59.174 GRADIENT	421.7250 11727	90832	.80428	.00535	.00401	.00654	00078

PAGE 493

DATE 01 DE	EC 75	TABULATE	D SOURCE D	IATA - CI	/50							PA	Æ 493
			CA20	747/1	Q1 S1		ORBITER	R DATA		(DGN)	163	50 J	W 75
	REFERENCE D	ATA							PA	RAHETRIC	DATA		
SREF = 2	890.0000 SQ.FT.	XHRP *	1109.000	OX.NI 0				ALF	HAC =	4.080	BETAC	•	-5.00
aner - : LREF =	474.8100 IN.	YMRP .	•	0 IN.YO				ELV	-1B =	.000	ELV-08	= 1	3.00
EREF ≈	936.6800 IN.	ZMRP =		0 IN.ZO				ELE	VON =	5.000	HACH		.60
SCALE =	.0300	_,,						EET	AD =	-5.000	PHI	•	.00
J41144								DX	•	.000	DY	•	10.00
		RUN NO.	844/ 0	RN/L =	3.30	GRADIENT	INTERVAL *	-1.00/	4.08				
	ALPHA0	DZ	Q(PSF)	PB	1	PB2	PB4	LHLS	RHLS	PC			
	10.440	766	420.82670		3300	52060	50110	50440	56220				
	10.421	2.266	421.32400	5	4410	52250	50170	50580	55690				
	10.417	6.604	421.19690		4040	51800	49710	50190	55350				
	10.423	14.060	420.95030		45 <b>50</b>	52510	50570	50740	55350				
	10.442	29.201	422.69460		5220	53910	51130	51780	56420				
	10.451	44.256	421.57400		3150	52000	48860	49950	54400				
		GRADIENT	. 1640	30	0365	00063	00020	00079	.00178	u	8880		
			CrEO	797/1	01 51		ORSITE	R DATA		100341	0 <b>7</b> 1 (	50 J	M 75
	REFERENCE D	ATA							PA	RAHETRI	C DATA		
SREF =	2690.0000 SQ.FT.	XMRP	1169.00	07.HI 00				ALI	PHAC =	4.000	BETAC	•	-5.00
LREF =	474.8100 IN.	YHRP *		60 IN. YO				EL	V-1B =	.000	ELV-O	3 =	3.00
BREF =	933.0800 IN.	ZHRP =	375.00	00 IN. <b>Z</b> C				ELI	EVON =	5.000	HACH	•	.81
SCALE =	.0300							8É.	TAO -	-5.880	PHI	•	.01
JUNG								ĐX	-	10.000	ĐY	•	10.0
		RUN NO.	818/ 0	RN/L =	3.26	GRADIEN	T INTERVAL =	-1.80/	4.00				
	ALPHAO	DZ	QIPSF	) PB	1	P82	P84	LHLS	RHLS	PC			
	10.347	-1.294	421.9778		3010	58960	49530	49950	<b>5386</b> 0		9570		
	10.332	1.624	421.6034		2640	50500	49822	49580	52351		0300		
	10.329	6.160	421.7269		2930	5070ช	49 💥	49700	52920		0200		
	10.340	13.665			3530	51480	49734	50380	5339				
	10.361	28.609			3750	52190	50330	51170	54200		5790 - 700		
	10.373	43.844			2420	50890	49250	50190	53051		4790		
		GRADIENT	.0000	0.0	10300	.08080	.00000	.60000	.00001		0000		

ORBITER DATA

(DGN107) ( 20 JAN 75 )

CCC	LU L	· Da	~	,

## PARAMETRIC CATA

						111 90	ALPHAC	= 4.00	DETAI	; =	-5.000
SREF =	2590.0000	SQ.FT.	XHPP				ELY-IB	= .00	O ELV-	XB =	3.000
LREF =	474.8189	IN.	Alato.			IN.YO	ELEVON		D HACH	-	.620
BREF =	936.6800	IN.	ZMRP	-	375.0000	IN.ZO	EETAD		o PHI	-	.009
SCALE =	.0300						ex.	- 10.80	_		10.000

## DIN NO 820/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.08

ALPHAO 14.674 14.656 14.650 14.655 14.669	DZ 2.198 5.136 9.779 17.264 32.135 47.232	Q(PSF) 421.85640 421.47680 421.69870 422.83970 422.09270 421.71330	P8151530493904902050350502004651050350	P8246750467404622047390471304519047130	P8449190469704651047990478404623048110	LHLS489704693046280475704732047561047510	FHLS51230486804793049010486104686048680	PCAV -1.06620 -1.04800 -1.04490 -1.16170 -1.20190 -1.27530
14.659 14.671	62.086 GRADIENT	421.71330 422.83550 .00000	50350 60080	• - •	•	47510 .00000	48880 .00800	-1.27530 .00000

CA20 747/1 01 51 ORBITER DATA (DGN108) ( 20 JAN 75 )

### REFERENCE DATA

### PARAHETRIC BATA

						1109.0300	٧0	ALPHAC	-	8.000	BETAC	-	-5 BH
SREF •			sa.ft.	pp a u	=			ELV-18		.000	ELV-08		24.00 <b>0</b>
LREF =	- 4	74.8100	IN.	YHRP	-		IN.YO	ELEVON	-	5.000	HACH	•	.600
eref •	• 9	35.6800	IN.	ZHRP	=	375.0000	IN.20	BETAO		-5.000	PHI		.000
SCALE *	-	.0380						DX	-	10.000	GY	-	10.000

# RIN NO. 827/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 10.123 10.130 10.153 10.189 10.262 10.293	DZ -2.709 .522 4.682 12.431 27.432 42.263	422.08610	P91513905146051900533805072853010	P82 -,49790 -,49790 -,50240 -,52000 -,49270 -,51610 -,00000	P84 49940 49940 50340 51820 49310 51820	LHLS493304927049700512904878051350 .00000	RHLS 52650 52380 52790 54340 51850 54270	PCAV -1.12850 -1.12660 -1.12540 -1.12920 -1.12160 -1.15990 .00000
	GRADIENT	.00000	.00000	.00000	.טטטטט	.00000	.00000	.00000

DATE 01 DEC 75

TABULATED SOURCE DATA - CA20

.00000

GRADIENT

.00000

.00000

PAGE 495

DATE GI	DEC 75	INDULATE	D 2004/25 01	\IR - U									
			CAZO	747/1	01 SI		ORBITE	R DATA		(DGN1)	1 (80	50 J	N 75 3
	REFERENCE D	ATA							P	ARAHETRI (	COATA		
SRFF =	2690.0000 SQ.FT.	XHRP =	1109.000	1 1N.XO				AL	PHAC =	8.000	BETAC	=	-5.000
SREF =	474.8100 IN.	YHRP =		O IN.YO				Εl	_V-IB =	.000	ELV-08	<b>*</b>	3.000
BREF =	936.6800 IN.	ZHRP =						El	EVON =	5.000	HACH	•	.600
SCALE =	.0300	2.2	•	• • • • • • • • • • • • • • • • • • • •				Bi	- OATE	-5.008	PHI	•	.000
SCREE "	10300							D	x =	10.600	DY	=	10.000
		RUN NO.	823/ 0	RN/L =	3.24	GRADIENT	INTERVAL -	-1.09/	4.00				
	ALPHAO	DZ	Q(PSF)	PB	ı	PB2	PB4	LHLS	RHLS	PC			
	14.529	426	420.60420	-,48	3360	46870	46410	46040					
	14.532	2.587	421.59970	49	3840	47910	47610	-,47260	4949				
	14.546	7.238	421.10300	-,4	3240	47260	46980	46710		_			
	14.574	14.864	420.97790	41	8860	46680	46580	46340					
	14.612	29.618	421.72410		9690	47280	47490	47070					
	14.638	44.620	421.47510		9170	46480	÷.4692D	46520					
	14.647	59.279			6980	46230	46520	46160			1330		
		GRADIENT	.33040	0	0491	00345	00398	00405	~.0031	20	0521		
			CASO	747/1	01 5	1	ORBITE	R DATA		(DGN1	09) (	20 J	W 75 1
	REFERENCE C	ATA							F	ARAHETRI	C DATA		
	2000 0000 CO FT	XHRP •	- 1109.663	n IN YN				A	LPHAC =	4.000	BETAC		.000
SREF =		YHRP .	• •	O IN.YO				E	LV-IB =	.000	ELV-O	3 =	3.000
LREF =		ZHRP		D IN.ZO				Ε	LEVON =	5.080	HACH		.600
BREF =		21 611	3751300					В	ETAO =	-5.089	PHI		.000
DUALE -	.0300							Ü	× =	10.000	DY	•	.000
		RUN NO.	8317 .	RN/L =	3.27	GRADIENI	INTERVAL I	-1.00/	4.00				
	ALPHAO	DZ	· Q(PSF)	PB	1	P82	P84	LHLS	RHLS		CAV		
	10.322	-1.389			4340	<b>5</b> 4130	50400	51230			19780		
	10.306	1.603			3750	53100	49260	50370			19650		
	10.302	6.139			3900	53160	49310	50430			9900		
	10.313	13.778		5	6260	55430	51530	52750			15160		
	10.332	29.819	421.71780		2790	51930	48120	49520			10090		
	10.343	43.741	421.21900	) <b>-</b> .5	12120	50890	47380	48840	530		08900		

.00000

.00000

.00000

.00000

CA20 747/1 OI SI ORBITER DATA (DGNIC9) ( 20 JAN 75 )

REFERENCE DATA

## PARAHETRIC BATA

sref Lref Bref	=	2890.0000 9 474.0100 [ 936.6800 ]	IN.	XHRP YHRP ZHRP	•	1109.0000 .0000 375.0000	IN.YO	ALPHAC ELV-IB ELEVON	-	.000 5.000		•	.000 3.000 .600
SCALE	=	.0300						BETAO	-	-5.000	PHI	•	.000
								DX	=	10.000	DY	-	.000

## RUN NO. 834/ 0 RN/L = 3.28 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	O(PSF)	P81	PB2	P84	LHLS	RHLS	PCAV
14.694	.928	421.64220	52270	50120	48120	48480	53460	-1.07140
14.676	3.997	422.46230	52270	50370	48170	48788	52790	-1.08390
14.653	8.486	421.93910	51310	49400	47090	~.47810	51510	-1.06820
14.660	16.691	421.71480	50800	- +8880	46240	47200	50630	-1.07788
14.655	31.106	421.46980	51090	49210	46520	47500	50840	-1.10970
14.692	45.023	421.71940	51090	48950	46910	47500	50570	-1.11720
14.673	69.943	420.84840	48950	46480	44590	45300	48280	-1.13540
	GRADIENT	.20202	.00880	000031	00016	08098	.00218	00407

CARD 747/1 01 S1 ORBITER DATA (DGN110) ( 20 JAN 75 )

REFERENCE DATA

## PARAMETRIC DATA

SREF		2699.0000 SQ.F	T. KIRP		1109.0000 1	OX.N	ALPHAC		8.	000	BETAC	-	.000
LREF	-	474.8108 IN.	YKÆP	-	.0000 11	OY.N	ELV-IB	; <b>-</b>	•	000	ELV-OB	•	3.000
EREF		936.6800 IN.	ZMRP	=	375.0000 !!	N.20	ELEVOR	! =	5.	009	HACH	•	.600
SCALE		.0300					BETAO		-5.	600	PHI	•	.000
		*****					ΩX	-	10.	000	ĐY	•	.000

## RUN NO. 8407 0 RN/L = 3.28 GRADIENT INTERVAL = -1.007 4.00

ALPHAO	DZ	Q(PSF)	PBI	PB2	P84	LHLS	RHLS	PCAV
10.304	-3.002	422.47020	-,54040	53550	-,52270	52320	<b></b> 55550	-1.16680
10,306	075	420.85140	53230	52320	51080	51100	54670	-1.17800
:0.328	4.516	421.47660	54270	53360	52850	52080	55750	-1.17120
10.380	12.075	420.97640	54340	53550	52050	52020	55890	-1.15740
10.425	26.946	421.84690	55000	53880	52730	~.52570	56420	-1.17190
10.467	42.070	421.09850	+.54840	52710	51880	51780	55550	-1.15680
	CRADIENT	nnnnn	.00000	annno	annon	.00000	.00000	agage.

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

CA20 747/1 01 51 ORBITER DATA

REFERENCE DATA PARAHETRIC DATA 1109.0000 IN.XO - 2690.0000 SQ.FT. XHRP = ALPHAC = 8.000 BETAC . .000 474.8100 IN. YHEP .0800 IN.YO ELV-IB = .080 ELV-OB = 3.000 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO ELEVON . 5.000 HACH .600 SCALE = .0300 BETAG = -5.000 PH! .000 ĐΧ 10.000 DY .000

> RUN NO. 837/ 0 RN/L = 3.29 GRADIENT INTERVAL - -1.00/ 4.00 **ALPHAO** DΖ Q(PSF) PBI **PB2** P84 LHLS RHLS PCAV 14.391 -2.363 421.47810 -.49470 -.48110 ~.47780 -.47010 -.51040 -1.12350 14.539 -1.012 421.72560 -.49610 -.48270 -.47950 -.47200 -.51170 -1.12290 14.492 1.816 421.72090 -.51240 -.49560 -.49200 -.48500 -.52120 -1.14740 14.537 2.114 422.46960 -.51830 -.50240 -.49770 -.49090 -.52650 -1.15430 14.547 6.572 422.59600 -.51980 -.50240 -.49480 -.49030 -.52520 -1.14670 -.48880 14.576 14.073 421.47360 -.50650 -.47780 -.47620 -.51040 -1.13360 14.612 29.194 421.72410 -.52860 -.50890 -.50000 -.49760 -.52990 -1.16870 14.641 44.237 422.21990 -.51750 -.49470 -.49090 -.48780 -.51710 -1.16060 14.651 58.932 421.47810 -.51090 -.48430 -.48460 -.47939 -.50700 -1.20200 GRADIENT 2.50769 -.01979 -.01945 -.01912

CARD 747/1 01 SI ORBITER DATA (DGNL11) ( 20 JUH 75 )

-.01643

### REFERENCE DATA

#### 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO 474.8180 IN. YMRP = .0080 IN.YO BREF \* 936.680D IN. ZMRP = 375.0000 IN.ZO

SCALE -.0300

# PARAHETRIC DATA

-.02314

-.01777

PAGE 497

(DGN110) ( 20 JAN 75 )

ALPHAC =	4.000	BETAC		.000
ELV-18 =	.000	ELV-08	-	3.000
ELEVON =	5.000	HACH		.600
BETAO -	-5.000	PHI	-	.000
DX -	.000	DY	•	10.000

#### RUN NO. 843/ 0 RN/L \* 3.33 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PB1	PB2	PB4	LHES	RHS	PCAV
10.446	843	422.19740	51820	50440	50000	49460	53600	-1.74990
10.429	2.180	421.19740	51010	49270	48690	48120	52990	-1.78120
10.422	6.658	421.07390	50860	48950	48290	47630	52450	-1.84590
10.430	14.218	420.94580	54410	52510	51820	50990	55820	-1.98600
10.443	29.264	422.44130	53150	51930	50260	49890	54400	-2.08770
10.450	44.292	421.81960	51750	51020	48570	48790	53330	-2.17690
	GRADIENT	33083	.00269	00387	08433	.00443	.00202	01039

CARD 747/1 OI SI CREITER DATA

(DGN1121 ( 20 JUL 75 )

-		ME	Ph 4	7

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO LREF = 474.8100 IN. YMRP = .0000 IN.YO EREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO .0300 SCALE =

.000 ALPHAC = 4.000 BETAC = .000 ELV-08 -3.000 ELV-IB = HACH = .600 ELEVON = 5.000 .000 E CATES -5.000 PHI = DY \* 16.000 DX = 10.000

PARAMETRIC DATA

# RUN NO. 818/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	OZ	Q(FSF)	PB1	P82	P84	LHLS	RHLS	PCAY
10.351	-1.302	421.35330	49610	47780	45728	46410	50090	-1.06180
10.339	1.671	422.97090	52120	50!10	48850	48670	52640	-1.69200
10.339	6.235	422.95930	62270	50310	48110	48730	52110	-1.08820
10.344	13.633	422.84500	53080	51280	49028	49770	52920	-1.09700
10.363	28.774	421.97620	~.53010	51480	49070	58070	53120	-1.12150
10.378	43.868	422.59640	53160	51670	49250	50380	53390	-1.13590
	GRADIENT	.00000	.00009	.08000	.00000	.00000	.00008	.00000

# RUN NO. 821/ 0 RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.08

ALPHAO	ĐZ	Q(PSF)	P81	PB2	PB4	LHLS	RHLS	PCAV
14.674	1.871	421.09870	47840	44990	45720	45310	47260	-1.04360
14.654	4.988	422.34460	51680	48750	49910	49150	50780	-1.00320
19.651	9,491	421.34730	49760	46810	47889	47260	48610	-1.05970
14.654	16.765	421.97310	47910	44670	45890	45190	46390	-1.07000
14.662	31.845	421.22520	47400	44080	45540	44788	45850	-1.11520
14.672	46.937	421.72390	47250	44020	-,45500	44590	45710	-i.17170
14.669	61.6B1	421.34860	47840	44478	46170	45120	46250	-1.20810
, ,,,,,,,,	GRADIENT	.00080	.60000	.00000	.80888	.00800	.00808	.00000

7000

DATE OF DEC 75

TABULATED SOURCE DATA - CA28

CA20 747/1 01 SI

ORBITER DATA

(DON(13) ( 20 JAN 75 )

PAGE 499

BE	 ж.	CE	na:	F.A.

# PARAMETRIC DATA

SREF	_	2690.0000 50	O.FT.	XMRP		1109.0000	IN.XO	ALPHAC	•	8.000	BETAC	=	.000
LREF			•		-		1N.YO	ELV-18	=	.000	ELV-08	-	3.000
BREF				ZHRP	=	375.0000	1N.20	ELEVON	•	5.000	HACH	•	.600
SCALE		.0300	•••			•		<del>CETAO</del>	•	-5.000	PHI		.000
SUMLE	_	.0200						ĐΧ		.000	DY	•	10.000

## RUN NO. 846/ 0 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	P81	F82	FB4	LHLS	RHLS	PCAV
14.663	234	420.82230	55000	52250	50510	50680	55680	-2. <b>077</b> 00
14.664	2.831	421.07540	55740	52450	50680	50930	56090	-2.05458
14.673	7.169	421.44750	56330	52640	50910	51170	55690	-2.06130
14.695	14.825	421.82430	55880	52060	58510	50620	55080	-2.05630
14.718	29.804	420.69570	55000	51020	49710	49770	54000	-2.08210
14.736	44.793	421.82128	51970	47780	46470	46530	50639	-2.11280
14.745	59.569	421.69690	52490	48170	46910	-,46770	51310	-2.14170
	GRADIENT	.08258	00241	00065	00055	00082	00134	.00409

CARD	747/1	01 SI	ORBITER DATA	(DGNI 34)	(28 AUG 75 1

### REFERENCE DATA

## PARAHETRIC DATA

SREF LREF BREF	-	474.8100 IN. 936.6800 IN.	XHRP YMRP ZHRP		IN.YO	ALPHAC = ELY-IB = ELEVON = BETAG =	9.000 .000 5.680 -5.680	BETAC ELV-08 HACH PHI		3.000 3.000 .600
SCALE	=	.0300				DX =	10.000	DY DY	-	10.000

## RUN NO. 827/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

350
60
340
320
160
390
100
3

DICE	EU.J

DATE DI DEC 75	TABULATED SOURCE DATA - CA20		PAGE 509
	CA20 747/1 01 SI	ORBITER DATA	(DGN(14) ( 29 AUG 75 )
REFERÊNCE D	ATA	PAR	MAMETRIC DATA
SREF = 2690.0000 SQ.FT. LREF = 474.8100 IN. BRZF = 938.6800 IN. SCALE = .0300	XMRP = 1109.0800 IN.XO YMRP = .0000 IN.YO ZMRP = 375.0000 IN.ZO	ELV-18 = ELEVON = BETAO = -	0.000 BETAC000 .000 ELV-08 - 3.000 5.000 MACH600 5.000 PHI000 0.000 DY - 10.000
	RUN NO. 8247 0 RN/L = 3.23	GRADIENT INTERVAL = -1.737 4.00	
ALPHAO 14.536 14.541 14.551 14.577 14.616 14.642 14.647	DZ	P82	PCAV -1.06760 -1.09900 -1.07330 -1.09150 -1.12660 -1.17000 -1.1932000674
REFERENCE E	PATA	PAR	RAMETRIC DATA
SREF = 2690.0000 SQ.FT. LREF = 474.8100 IN. EREF = 926.6800 IN. SCALE = .0300	XMRP = 1109.0000 IN.XO YMRP = .0000 IN.YO ZMRP = 375.0000 IN.ZO	ELY-IB = ELEVON = BETAO = -	4.000 BETAC = 5.000 .000 ELY-OB = 3.000 5.000 HACH = .600 -5.000 PHI = .000 10.000 DY = .000
	RUN NO. 832/ 0 RN/L = 3.26	GRADIENT INTERVAL = -1.00/ 4.00	

RUN NO.	832/ C	RN/L =	3.26	GRADIENT	INTERVAL =	-1.00/	4.00
---------	--------	--------	------	----------	------------	--------	------

ALPHAO	DZ	Q(PSF)	PBI	<b>LB5</b>	PB4	LHLS	RHLS	PCAY
10.326	-1.459	420.59520	-,56260	55370	51880	-,53240	50310	-1.08960
10.310	1.577	421.09400	53530	52320	48860	50370	55010	-1.08140
18.309	6.160	421.84050	52860	51610	48060	49640	54000	-1.08140
10.316	13.701	422.09890	55450	54070	50600	5208D	56420	-1.10910
10.331	29.714	422.58970	→.54040	52640	49260	507%3	54940	-1.1066J
10.344	43.808	421.96550	52710	51280	48000	49520	+.53660	-1.08830
	GRADIENT	.00080	.00080	.00000	.00000	.00000	.00003	.00000



DATE OF DEC 75

TABULATED SOURCE DATA - CARD

CA20 747/1 OLSI

PAGE 501

PARAMETRIC DATA

## ORBITER DATA

(DGN115) ( 20 JAN 75 )

BETAC -

5.000

3.000

.688

.000

.000

### REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN.XO
LREF -	474.8100	IN.	YMRP		.0008	IN.YO
BREF =	936.6800	IN.	ZHRP	=	375.0000	IN.ZO
SCALE =	.0300					

## ELV-18 = .000 ELV-08 = ELEVDN = 5.000 HACH = BETA0 = -5.000 PHI = DX = 10.000 DY =

4.000

ALPHAC .

## RUN NO. 833/ 0 RN/L = 3.28 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	ĐZ	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAV
14.703	.481	421,47360	53090	51480	49540	50250	53870	-1.05630
14.874	3.583	420.97490	52570	50370	48290	49030	~,53130	-1.07200
14.669	7.765	421.59970	52710	50630	48359	49210	52860	-1.07010
14.686	15.725	422.22150	52270	50310	47610	48660	52320	-1.07893
14.665	30.510	421.22200	51310	49340	46540	47620	50980	-1.07770
14.670	45.572	420.59970	50060	47850	45560	46460	49560	-1.07200
14.574	60.497	421.22050	50280	47780	46070	46650	49490	-1.13100
	GRADIENT	16076	.00154	.00359	.00403	.00393	.00239	00506

CA20 747/1 01 SI

ORBITER DATA

(DGN116) ( 20 JAN 75 )

## REFERENCE DATA

## PARAHETRIC DATA

SREF	-	2690.0000	SQ.FT.	XMRP	=	1109.0000	IN.XO	ALPHAC	•	8.080	BETAC	•	5.000
LREF	-	474.8100	IN.	YHRP	•	.0080	IN.YO	ELV-18	=	.080	ELV-08	-	3.000
BREF	*	936.6800	IN.	ZMRP		375.0000	IN.ZO	ELEVON	=	5.000	HACH	-	.600
SCALE		.0300						BETAO	-	-5.000	PHI	-	.000
		,						DX	=	10.000	DY	•	.000

## RUN NO. 839/ 0 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 10.294 10.306 10.320 10.357 10.428 10.473	02 -2.738 .352 3.096 12.333 27.414 42.599	Q(PSF) 421.22660 421.25970 421.47360 422.21630 420.97340 422.21630	P81520505353054270557405434052640	P82 51220 52510 53100 54590 53030 50960	P84 50220 51360 51990 53300 52850 50280	LHLS 50550 51650 52200 53480 52080 50310	RHLS 54070 55010 55680 57370 55890 54000	PCAV -1.15990 -1.17940 -1.17380 -1.16680 -1.15490 -1.13980
,0,,,,	GRADIENT	04592	00269	00215	00229	00200	00244	.00022

CA20 747/1 01 S1

ORBITER DATA

(DGN116) ( 20 JAN 75 1

		RATA	

# PARAMETRIC DATA

5.000 9.000 BETAC . ALPHAC = SREF = 2898.0000 SQ.FT. XMRP = 1109.0000 IN.XO ELV-DB = 3.000 .000 ELV-18 = LREF \* 474.8100 IN. YMRP = .0000 IN.YO .600 ELEVON = 5.000 HACH = ZMRP - 375.0000 IN.ZO BREF = 936.6800 IN. -5.000 PHI BETAO = .000 .0300 SCALE = 10.000 DY .000

> GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 938/ 0 RN/L = 3.26

ALPHAO	0Z	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAV
14.538	-1.194	421.22660	53900	51930	52390	51780	55550	-1.15300
14.540	1.941	421.10360	53600	51350	51710	51160	54610	-1.15990
14.553	6.274	420.97490	52600	50960	51250	50920	54140	-1.15300
14.577	13.736	421.10460	52940	50310	50450	50130	53190	-1.19740
14.613	28.832	421.22660	51310	46490	48598	49360	51178	-1.13800
14.613	28.832	421.22660	51310	48490	48598	48360	51170	-1.13800
14.640	43.855	422.09870	51830	48580	49940	48840	51240	-1.14740
14.651	58.746	422.47020 .08080	50430 .00080	47130 .00800	48350 .60000	47440 .00000	49830 00000	-1.18320 .00000

(DGN117) ( 20 JAH 75 ) ORBITER DATA CA20 747/1 01 SI

### REFERENCE DATA

### PARAMETRIC DATA

core	_	2690.0000 <b>50.FT</b> .	YHDD	=	1109.0000 1	N.XO	ALPHAC (	_	4.000	BETAC	•	5.900
							E1_V-1B •	=	.000	ELV-08		3.000
LREF	=	474.8100 IN.	YMPP		.0000 1	IN. TU						.600
EREF		936.6800 IN.	ZMRP	=	375.0000 1	N.20	ELEVON	-	5.000		-	
							BETAO .	=	~5.COD	PHI	-	.000
SCALE	=	.0300					DX	_	.000	DY	•	10.000
							DA 1	_	.000	₩.		

#### GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.29 RUN NO. 845/ 0

ALPHAO 10.498	OZ 906	Q(PSF) 422.19890	PB1 ~.50720	P82 48750	P84 ∽.47030	LHLS 47450	RHLS 55080	-5.10340
10.450	2.237	421.44900	58940	48750	-,46810	47380	~.53190	-2.13170
10.441	6.513	420.82380	51600	48620	46470	47260	53130	-2.14550
10.439	14.233	422.69300	54550	51740	49370	50250	55410	-2.19760 -2.22900
10.446	29.130	421.57240	53820	51610	48860 48400	49930 49540	54278 54140	-2.25790
10.455	44,219 TM3101ENT	421.44750 23856	53150 00070	51480 .00000	.00070	.00022	.00601	00900

DATE OI DEC 75 TABULATED SOURCE DATA - CA20

PAGE 503

CASD	747/1	01 SI

ORBITER DATA

(DGN[18] ( 20 JUN 75 1

ERENCE	

SREF	=	2690.0000	SQ.FT.	XHRP	-	1109.0000	IN.XO
LREF		474.8100	IN.	YHRP	•	.0000	IN.YO
BREF	•	936.6800	IN.	ZMRP	•	375.0080	IN.20
SCALE		.0300					

## PARAMETRIC DATA

ALPHAC	•	4.000	BETAC	-	5.000
ELV-19	•	.000	ELV-08	-	3.000
ELEVON	*	5.000	HACH	•	.600
DETAG	•	-5.080	PHI	-	.000
DΧ	=	10.600	DY	•	10.000

# RUN NO. 817/ 0 RN/L = 3.28 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	ĐZ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAV
10.397	-1.429	422.46890	49910	49720	47718	47459	51230	-1.09260
10.368	1.603	421.85180	49980	48550	46570	46590	49460	-1.08070
10.354	6.192	421.47530	50130	48498	46230	46470	50020	-1.07310
10.352	13.627	422.59320	53010	51600	49020	49340	52650	-1.08680
10.368	28.854	421.97310	52710	51670	48850	49400	52580	-1.10520
10.375	43.802	421.34680	51680	50630	47760	48670	51770	-1.10390
	GRADIENT	.00000	.00800	.00800	.00000	.00000	.00000	.00800

# RUN NO. 822/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.80

ALPHA0	DZ	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAV
14.717	1.874	421.59740	49100	46350	47880	47020	49150	-1.09630
14.688	4.769	421.47380	49020	46220	47590	46770	48680	-1.07440
14.674	9.382	421.84560	49170	46220	47590	46710	4B410	-1.05930
14.665	16.975	421.84400	48430	45250	46880	45800	47190	-1.06180
14.668	31.950	420.84400	46950	43890	45260	44450	45580	-1.09140
14.673	46.749	422.08640	49100	46160	47590	46410	47670	-1.15980
14.669	61.783	422.08640	49390	46290	47820	46530	47870	-1.20690
	GRADIENT	.00000	.08000	.00000	.00000	.00000	.00000	.00000

CA20 747/1 01 SI

ORBITER DATA

-.49580

-.48300

-.48170

-.47440

-,45670

-.00102

-.50050

-.48860

-.48920

-,48120

-.46410

-.00078

(DGN119) ( 20 JAN 75 )

### REFERENCE DATA

14.572

19.589

14.622

14.641

14.651

XMRP = 1109.8800 IN.XO SREF = 2690.0000 SQ.FT. .0000 IN.YO YMRP = LREF = 474.8100 IN. ZMRP = 375.0000 IN.ZO 936.6800 IN. .0300 SCALE .

6.896 421.96490

14.523 421.22050

29.445 421.46590

44.416 421.46430

59.262 421.64680

-.04263

GRADIENT

5.000 8.000 GETAC -ALPHAC -ELV-08 = 3.000 .000 ELV-18 = .600 ELEVON -5.000 HACH .000 EETAO = -5.000 PHI 10.000 10.000 DY

-1.10280

-1.08020

-1.11660

-1.14230

-1.18440

.00129

-.51440

-.49930

-.49490

-.48750

-.47800

.00020

PARAMETRIC DATA

	RUN NO.	826/ 0 RN	I/L = 3.24	GRADIENT	INTERVAL	1.00/	4.00	
AL-PHAO	DZ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAY
10.232	-3.159	421.09100	4B08 <b>0</b>	46550	47210	46460	49220	-1.12850
•	170		49760	47590	48850	47260	50160	-1.12480
10.221	4.274	422.21360	52850	49860	50220	49390	52720	-1.14230
10.228		•== •	52710	50760	50910	50190	53330	-1.13480
10.086	8.076	421.83900	52710	50830	50910	50130	53260	-1.12100
10.099	10.921	421.4690 <b>0</b>	53080	51540	51480	50860	53870	-1.12920
10.159	26.257		52420	50890	50970	50490	53390	-1.13540
10.305	41.630		.00000	.00080	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000			
	RURI NO.	825/ 0 RM	1/L = 3.22	GRADIENT	INTERVAL	1.00/	4.00	
ALPHA0	02	Q(PSF)	FBI	F82	<b>P8</b> 4	LHLS	RHLS	PCAY
14.588	647	420.59370	49320	47260	<b>∽.</b> 48480	47870	-,50360	-1.10280
14.550	2.289		46980	47520	48830	48170	50300	-1.09900
17.0/7	£ ,#00				E0050	ti DECO	_ 6166D	-1 102R0

-.48820

-,47520

-.47390

-.46690

-,44930

-.00089

-.51750

-.50500

-.50350

-.49590

-.48969

-.00225

DATE OF DEC 75

TABULATED SOURCE DATA - CARD

CARD 747/1 01 51

ORBITER DATA

PAGE 505

(DGN120) ( 20 JAN 75 )

PARAMETRIC [	l,	V,	L	٨
--------------	----	----	---	---

	REFERENCE DATA				PARAMETRIC DATA							
SREF LREF BREF SCALE	=	2690.0000 474.8100 936.6800 .0300	IN.	XMRP YMRP ZMRP		1109.0000 .0000 375.0000	IN.YO	ALPHAC = ELV-1B = ELEYON = BETAO = DX =	4.000 .000 5.000 -5.000	10,011		-5.009 .000 .600 .000

	RUN NO.	765/ 0 Rt	I/L = 3.26	GRADIENT	INTERVAL =	-1.00/	4.60	
ALPHAO	DZ	O(PSF)	FB1	P82	PB4	LHLS	RHLS	PCAV
10.515	-1.996	424.52560	55590	55370	53350	54288	54740	.58220
10.489	1.101	423.16160	51310	51160	49020	50070	50500	.62240
10.487	5.844	424.15580	53450	53300	51130	52090	52650	.59850
10.491	13.003	23.40720	53300	53170	50900	51840	52590	.61040
10.585	28.256	423.90390	55070	54980	52610	63430	54340	.60100
10.512	43.057	424.64510	55440	55700	53010	54100	54880	.62420
10.515	46.935	423.40270	54250	54530	51870	53000	53730	.63680
10.313	GRADIENT	.00800	.00000	.00000	.00000	.00800	.00000	.00000
	<b></b>	,						
	RUN NO.	768/ 0 RI	Y/L = 3.84	GRADIENT	INTERVAL =	-1.00/	4.00	
				_	INTERVAL =	-1.00/ LHLS	4.00 RHL	PCAV
ALPHAO	DZ	Q(PSF)	PBI	PB2 -	,			PCAV .89110
14.817	OZ . 070	Q(PSF) 423.90390	PB1 54630	PB2 53880	PB4	LHLS	RHL	
14.817 14.790	DZ . 670 3. 179	Q(PSF) 423.90390 424.15100	PB1 54630 54700	PB2 53890 53890	P84 53520	LHLS 53920	RHL 54140	.89110
14.817 14.790 14.781	0Z .070 3.179 7.513	Q(PSF) 423.90390 424.15100 424.52240	PB1 54630 54700 54410	PB2 53880	P84 53520 53417	LHLS 53920 54840	RHL 54140 54070	.89110 .87920
14.817 14.790 14.781 14.780	0Z .070 3.179 7.513 9.056	Q(PSF) 423.90390 424.15100 424.52240 424.64830	P81 54630 54700 54410 54330	PB2 53880 53880 53560	PB4 53520 53413 53180	LHLS 53920 54040 53920	RHL 54140 54070 53730	.89110 .87920 .87290
14.817 14.790 14.781 14.780 14.776	DZ .070 3.179 7.513 9.056 15.044	Q(PSF) 423.90390 424.15100 424.52240 424.64830 423.02910	PB1 54630 54700 54410 54330 51970	PB2 53890 53880 53560 53560	PB4 53520 53413 53180 53240	LHLS 53920 54040 53920 53960	RH. 54140 54070 53730 53870	.89110 .87920 .87290 .86790
14.817 14.790 14.781 14.780 14.776 14.778	0Z .070 3.179 7.513 9.056 15.044 30.013	Q(PSF) 423.90390 424.15100 424.52240 424.64830 423.02910 423.28070	P81 54630 54700 54410 54330	PB2 53990 53990 53560 53560 51160	P84 53520 53413 53180 53240 50960	LHLS 53920 54040 53920 53860 51540	84. 54140 54070 53730 53870 51510	.89110 .87920 .87290 .86790
14.817 14.790 14.781 14.780 14.776	DZ .070 3.179 7.513 9.056 15.044	Q(PSF) 423.90390 424.15100 424.52240 424.52240 423.02910 423.28070 423.77880	P81 54630 54700 54410 54330 51970 50490	PB2 53890 53890 53560 53569 51160 49470	P84 53520 53413 53180 53240 50960 49480	LHLS 53920 54040 53920 53860 61540 49890	R4L 54140 54070 53730 53870 51510 49890	.89110 .87920 .87290 .86790 .85530

CARO 747/1 01 S1

ORBITER DATA

(DGN121) ( 20 JAN 75 )

-5.000

PARAMETRIC DATA

8.000 BETAC =

REFERENCE	DATA
-----------	------

the second control of the second control of

EF = EF = ALE =
-----------------------

KHRP YHRP ZHRP		IN.YO			ALPHAC ELV-1B ELEVON BETAO GX	000 - 5.000	 -	-5.000 .000 .600 .000
	area o O	SMEL IN	3.25	GRADIENT INTERVAL =	-1.00/ 4.0	0		

	RUN NO.	766/ 0 RN/L = 3.25	GRADIENT INTERVAL .	-1.00/	4.00	
ALPHAO 10.296 10.312 10.352 10.359 10.447 10.474	02 -3.648 567 4.042 11.503 28.756 41.500 46.724 GRADIENT	422.8935055180 423.7639055590	P82 P845593055000559305506055700528105573054720569305449055210538100000000008	LHLS55810559105459055510546905563055620	RHLS66490564905628066280655505528055550	PCAV .52750 .52440 .53000 .53510 .56460 .57590 .59790
	RUN NO.	767/ 0 RN/L = 3.24	GRADIENT INTERVAL	-1.00/	4.80	
ALPHAO 14.620 14.690 14.699 14.707 14.735 14.751	DZ -1.558 1.597 5.926 13.492 28.283 43.438 58.164 CRADIENT	423.6442053080 423.5230055960 424.0173054630 423.0231052930 423.1451049980 424.0157051160	P82 P84524505176052520518105337054660538205280628005159046820465104993049540 .00800 .00800	LHLS -,52270 -,52390 -,55320 -,53960 -,52090 -,48910 -,49830 ,00000	62450 49420 50570	PCAV .85030 .94720 .80390 .79320 .80760 .84030 .85030

DATE DI DEC 75

SCALE =

TABULATED SOURCE DATA - CASO

CA20 747/1 01 51

ORBITER DATA

(DGN122) ( 20 JAN 75 )

PAGE 507

## REFERENCE DATA

.0300

# SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO LREF = 474.8100 IN. YMRP = .0000 IN.YO BREF = 935.6900 IN. ZMRP = 475.0000 IN.ZO

PARAMETRIC DATA

ALPHAC =	4.80D	BETAC	=	.000
ELV-IB =	.000	ELV-CB	-	.000
ELEVON =	5.000	HACH	•	.600
BETAO =	-5.000	PHI		.000
0x =	.009	DY		10.000

# ROSI NO. 761/ 0 RN/L = 3.32 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 10.533 10.518 10.511 10.517 10.529 10.535	DZ -1.760 1.242 5.718 13.048 28.455 43.071	01PSF) 424-04560 423-79680 424-04720 423-29870 423-79680 424-65410 424-53030	PB1500504854048930534505315053820	P82 51090 50960 50960 54590 54560 55240	P84 50100 48510 48020 52150 51410 50830 51410	LHLS48300470804787051280509305105051720	RHLS 49420 48230 49390 52650 52450 52330 52993	PCAY .49330 .51060 .52000 .48800 .51310 .53510
10.533	47.085	424.53039 .08800	53820	55240	.00000	.00800	.00000	.0000

# RUM ND. 7647 0 RN/L = 3.26 GRADIENT INTERVAL = -1.007 4.00

	ĐΖ	O(PSF)	PBt	P82	PB4	LHL5	RHLS	PCYA
ALPHA0			55800	- 54400	52380	53670	54200	.80640
14.817	. 178	424.15420			52810	55140	55550	.78560
14,797	3.06 <b>7</b>	424.39810	58180	55760			50570	.83400
14.787	7.591	422.90550	51160	50570	48800	50130		
14.780	15.133	423,53070	54928	54330	52720	53920	54400	.77250
• • • • • •	29.555	422.90100	51530	50770	49360	50550	51048	.79320
14.773			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	46890	47600	48739	49290	.75380
14.775	45,083	423.65210	49900	•		46730	49420	.81830
14.771	60.069	423.90000	50120	4908D	47710			
	COLOIGNI	กลนนอ	00408	00471	00495	00509	00467	00723

CA20 747/1 01 SI

ORBITER DATA

(DGN123) ( 20 JAH 75 )

PARAMETRIC DATA

	RENC		

LREF	=	2690.0000 SQ.FT. 474.8100 IN. 936.6900 IN. .0300	XHRP YHRP ZHRP	- -		IN.YO	ALPHAC • ELV-18 • ELEVON • BETAO •	- 5 -5	.000 .000 .000 .000	BETAC ELV-OB MACH PHI DY		000. 000. 003. 000.
------	---	---	----------------------	--------	--	-------	---	-----------	------------------------------	--------------------------------------	--	------------------------------

RUN NO.	762/	ß	RN/L =	3.28	GRADIENT	INTERVAL =	-1.00/	4.00
---------	------	---	--------	------	----------	------------	--------	------

ALPHAO	DZ	Q(PSF)	PBI	P82	PB4	LHLS	RHLS	PCAY
10.341	-3.608	423.91160	54550	55240	52150	52270	53530	.44090
10.346	403	423,16160	54780	55440	52330	52510	53870	.43770
10.375	5.542	423.78270	55220	55930	52610	52880	54340	.44150
10.411	11.472	423,77800	55740	56280	52840	53370	54810	.45720
10.469	26.651	422.77600	55148	55830	52040	52880	54340	.49550
10.496	41.561	422.89950	53890	54660	50739	51950	53130	.52750
10.503	46.845	423.90080	54110	54720	50850	52210	53330	.54780
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.08000

# RUN NO. 763/ 0 RN/L = 3.26 GRADIENT INTERVAL = -1.00/ 4.00

ALPHA0	DZ -1.516	Q(PSF) 424.52090	P81 55960	P82 55760	PB4 +.53580	LHLS 54530	RHLS 55550	PCAV .74170
14.691	2.914	423.89760	53890	5358D	51300	52570	53460	.77060
14.699	7.487	423.40270	55000	54530	52330	53730	54470	.74670
14.711	13.631	422.90100	54330	53750	51760	53180	53870	.74730
14.742	28.443	423.52770	52190	51420	49540	50990	51580	.76930
14.754	43.346	423.77640	49930	48950	47200	48420	49150	.78820
14.753	58.323	423.77010	60798	49800	48060	49038	50030	.79630
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

· ....

DATE 01 DEC 75 TABULAT

TABULATED SOURCE DATA - CA20

CA20 747/1 01 SI

ORBITER DATA

(DGN124) ( 20 JAN 75 )

PAGE 509

## REFERENCE DATA

SREF	_	2690.0000	SO.FT.	XHRP	=	1169.0000	IN.XO
		474.8180		YHRP			
BREF	=	936.6800	IN.	ZHRP		375.0000	1N.ZO
SCALE	=	.0300					

ALPHAC	=	4.000	BETAC	=	3.00
ELV-1B	=	.000	ELV-08		.00
ELEVON	=	5.000	HACH	•	.601
BETAD		-5.000	PHI	•	.00
ΠX		.000	DY		10.00

PARAMETRIC DATA

## UN NO. 769/ 0 RN/L = 3.24 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 10.561 10.533 10.511 10.505 10.514 10.518	DZ -1.968 1.261 5.843 13.217 28.279 42.986 46.942	Q(PSF) 424.27700 424.15420 424.28010 423.90240 423.15560 422.90850 423.53520	PB149680503505276052550592205116055000	P8249540501805265052260547905116054980	P8449140495905176051240538104976053580	LHLS49030496405196051540539205013053980	RHLS 49020 49620 52050 51710 54340 50509	PCAV .59850 .60160 .58150 .59280 .59030 .66570
10.518	GRADIENT	423.53520	08000.	.00080	.00000	.00000	.00000	.00000

## RUN NO. 772/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	P81	P82	P84	LHLS	RHLS	PCAV
14.954	.809	423.79370	50640	50060	50620	49950	50030	.87170
14.915	4,128	422.91750	53080	52580	53010	52570	52450	.85410
14.88B	10.992	424.66090	52710	52070	52550	52150	52050	.86230
	18.691	424.26486	51970	51090	51990	51540	51310	.85790
14.877	33.530	424.16050	50860	49860	50950	50310	50230	.65530
14.871		423.91020	48940	47660	48910	47990	48340	.87670
14.867	48.582		47840	46360	47540	46470	47130	.90940
14.860	63.797	423.03660	• • • •	46380	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.50000	. 55566	

CA20 747/1 01 51

ORBITER DATA

(DGN125) ( 20 JAN 75 1

CCC	PENCE	DATA

# PARAMETRIC DATA

SREF	2890.0000	SQ.FT.	XMRP	-	1109.0000	IN.XO	ALPHAC	-	8.000	BETAC	•	5.000
	474.8100		YMRP		.0000		ELV-18	-	.080	ELV-0B	=	.000
	938.6800		ZMRP	-	375.0000	IN.ZO	ELEVON	=	5.000	HACH	•	.680
SCALE	.0300						BETAO	=	-5.000	PHI	=	.000
							XO	=	.000	DY	*	10.000

## RUN NO. 778/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DZ	Q(PSF)	PB1	P82	P84	LHLS	RHLS	PCAV
10.389	-3.483	423.53070	50790	50510	50160	49990	50100	.52750
10.364	364	424.15260	53000	52710	52100	52020	62250	.52630
10.376	4.046	423.40270	53820	53620	52780	52880	53060	.52310
10.412	11.707	423.40120	55140	54850	53860	53920	54270	.52940
10.454	25.499	423.27920	55740	55440	54380	54470	54940	.55450
10.479	41.497	422.65240	54850	54660	53460	53670	54140	.58860
10.466	46.759	423.15110	55370	-,55370	54030	54470	54810	.60350
	CDADIENT	nnnn	สถกกก	. 00000	.00000	.00000	.00000	.00000

## RUN NO. 771/ 0 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALFHAO	DŽ	Q(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAV
14.823	884	423.41770	53890	53300	53520	53000	53060	.81640
14.797	1.955	424.28640	53890	53300	53590	53120	53190	.03530
14.791	6.399	423.66460	55740	54920	55340	<b>~.55020</b>	54940	.81580
14.799	14.059	424.53350	53670	52840	53410	53060	52920	.82210
14.819	28.947	423.66460	52120	51090	51640	51350	51370	.82710
14.842	43.761	424.04090	58490	49280	50100	49340	49830	.84150
14.647	59.029	423.66789	46500	46940	47770	46960	47810	.89550
	GRADIENT	.30596	.00000	.00000	00021	00042	00046	.00665

PAGE 511 TABULATED SOURCE DATA - CARD DATE OF DEC 75 (DON126) ( 20 JAN 75 ) ORBITER DATA 747/1 02 51 PARAMETRIC DATA REFERENCE DATA -5,000 4.000 BETAC = ALPHAC = XHRP = 1109.0000 1H.XO = 2690.0000 SQ.FT. ELV-DB \* 3.000 .000 ELV-IB = .0000 IN.YO YHRP 474.8100 IN. LREF HACH .600 ELEVON # 5.000 375,0000 IN,ZO ZHRP = 936.6800 IN. BREF = .000 .000 PHI BETAO . .0300 SCALE . DY .000 .000 GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.29 RUN NO. 656/ 0 PCAV RHLS P84 LHLS Q(PSF) PBI P82 ALPHAO -.26250 -.30570 -,77770 -.82660 -.30120 -.01220 -1.096 423.57880 10.466 -.24550 -.79670 -.28950 -.72930 -,77850 -.28490 2.127 422.33770 10.459 -,24800 -.80580 -.29290 -.78830 -.74350 -.28930 6.620 423.08290 10.459 -.23670 -.28070 -.78630 -.74290 -.80160 -.27680 10.464 14.115 422.96140 -.22290 -.79060 -.26590 -.74070 -.26280 -.78180 29.115 422.46280 18.475 -.21790 -.26050 -.78750 -.25690 -.77270 ~.73550 44.160 422.58780 10.481 -.21220 -.25520 -.73270 -.78200 -.77149 48.200 422.33920 -.25170 10.485 .00000 .00000 .00000 .08080 .00000 .00000 .00000 GRADIENT (DGN127) ( 20 JAN 75 ) ORBITER DATA CAZO 747/1 02 51 PARAHETRIC DATA REFERENCE DATA -5.000 4.000 BETAC -ALPHAC = XHRP - 1109.0000 IN.XO SREF = 2690,0000 SQ.FT. ELV-08 = 3.000 .000 ELV-IB = YMRP = .0080 IN.YO 474.8100 IN. LRIF -.600 5.000 HACH ELEVON -375.0000 IN.ZO ZMRP = BREF = 935.6800 IN. .000 PHI .000 BETAO = .0300 SCALE -.000 10.000 DY ĐΧ GRADIENT INTERVAL = -1.00/ 4.80 RN/L = 3.34 RUN NO. 657/ 0 PCAY RHLS LHLS PB4 P82 281 ĐΖ Q(PSF) ALPHAO -.25380 -.21730 -.77470 -.74010 -.76350 -1.292 422.34670 -.24510 10.433

-.74160

-.74690

-.77799

-.73770

-.75840

-.76490

.00000

-.231CB

-.23550

-.26280

-.22070

-.24148

-.24280

.00000

1.807 422.34070

6.229 423.21200

14.070 423.21510

28.827 422.47178

43.949 422.59080

48.212 422.96590

GRADIENT

.00000

10.431

10.433

10.444

10.465

10.477

10.478

-.20350

-.20600

-.23170

-,18960

-.20780

-.20910

.00000

-.23970

-.24300

-.27200

-.22820

-.24789

-.24910

.00000

-.75039

-.75460

-,78320

-.74480

-.76550

-.76880

.00800

-.71050

-.71220

-.74070

-.70540

-.72700

-,72930

.00000

CA20 747/1 02 SI

ATAC NATIONO

(DGH128) ( 20 JAN 75 )

REFEREN	

## PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XHRP = 1109.0000 IN.XO LREF = 474.8100 IN. YHRP = .0000 IN.YO BREF = 936.6800 IN. ZHRP = 375.0000 IN.ZO SCALE = .0300	ALPHAC • ELV~18 • ELEVON • BETAO •	.000 5.000 .000	BETAC = ELV-08 = HACH = PHI = GY =	-5.000 3.000 .600 .000
--	------------------------------------	-----------------------	------------------------------------	---------------------------------

## RUN NO. 569/ 0 RN/L = 3.32 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	DŽ	Q(PSF)	PB1	PB2	P84	LHLS	RHLS	PCAV
10.339	-1.706	424.62460	82180	78650	78700	28030	25720	29840
10.333	1.490	423.62630	78630	74760	77909	25950	23700	27830
10.348	5.895	423.63070	77010	72940	77500	25340	23100	27200
10.360	13.450	423.74980	75610	72940	77108	24928	22690	26820
10.303	28.424	424.99450	74720	72100	76930	24370	22220	26380
10.396	43.434	424.12500	74069	71580	76870	24180	22020	-,26000
10.401	48.251	424.49710	73910	71520	~.76760	24240	22090	26000
	CONDIENT	00000	00000	annen	. nonno	.00000	.00000	.00000

CA20 747/1 02 51 ORBITER DATA (DGN129) ( 20 JAN 75 )

### REFERENCE DATA

### PARAMETRIC DATA

LREF =		IN. YMRP	-	 1H.Y0	ALPIAC ELY-1B ELEVON BETAO	•	4.000 .000 5.000	SETAC ELY-OB HACH PHI	•	090. 090.E 093. 000.
SCALE =	.0300				BETAO DX	-	.000 .000	DA BHT		000.

## RUN NO. 652/ 0 RN/L = 3.31 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	εz	Q(PSF)	PB1 '	PB2	P84	LHLS	RHLS	PCAV
10.500	437	423.31590	27750	74220	66890	73620	28280	-,22480
10.491	2.659	422.69480	29160	75780	68770	75640	29560	23550
10.491	7.176	423.31750	~.26650	74870	68030	74420	27000	20910
10.496	14.694	422.31820	27830	77590	71160	76920	28070	21910
10.508	26.058	422.19020	27460	78570	72530	78510	27800	21730
10.510	29.527	422.31828	25240	75840	-,70820	76550	25520	19780
18.521	44.750	422.06960	24800	75780	70540	76250	25040	19340
10.524	48.090	423.81790	26420	<b>777</b> 90	72878	78288	26790	20910
	<b>GRADIENT</b>	20062	00455	00504	08507	00652	00413	00346

DATE BI DEC 75

TABULATED SOURCE DATA - CARD

CA20 747/1 02 51

ORBITER DATA

PAGE 513 (DON(29) ( 20 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

		2690.0000			1169.0000	1N.X0 0Y.MI	ALPHAC ELV-18		4.000 .000	BETAC ELV-08		909. 999.E
LREF BREF		474.8100 936.6800		-	375.0000	-	ELEYON		5.000	HACH	-	.500
SCALE	*	.0300					BETAO	-	.000	PHI	-	.000

RUN NO. 653/ 0 RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00

					OC.		RHLS	PCAY
ALPHAO	OŻ	Q(PSF)	PB1	P82	P84	LHLS		
14.760	1.601	423.32220	27830	81420	75550	83450	28010	22540
	4.801	423.07190	29970	83100	78170	84740	30360	24930
14.750	4.801		•	•	751.70	83270	27740	22480
14.743	9.208	422.57280	27530	81740	75430	03670		
14.738	16.514	421.95350	26870	02650	75550	85160	27130	21650
•	31.53B	422.08010	27380	83980	78390	85440	27540	22480
14.739	•		• • • • • • •		00500	87850	27878	22920
14.741	46.575	422.82740	27680	84920	80500	-,67630		
14.736	61.537	422.20360	25390	82720	79020	06440	~.25650	20970
17.730	CRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CA28 747/1 02 51

ORBITER DATA

(DGN130) ( 20 JAK 75 )

REFERENCE DATA

PARAHETRIC DATA

		2690.0000 SO	TET VHOD		1109 0000	1N. XO	ALPHAC		4.089	DETAC	-	.006
SREF						IN.YO	ELV-IB	•	.080	ETA-08	•	3.000
LREF		936.6800 18	••	_	375.0000		ELEVON		5.000	HACH	•	.600
BREF		.0300	1. 4		3.0.00	*****	BETAO	•	.000	PHI	-	.000
SCALE	-	,0200					DX	=	10.000	DY	*	.000

RUN NO. 661/ 0 RM/L = 3.30 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	OZ	O.PSF1	PB1	P82	PB4	LHLS	RHLS	PCAY
10.416	-1.295	422.86490	24060	67610	62790	-,69780	24440	21100
10.413	1,696	423.24150	24060	68780	63190	70570	÷.24510	21220
10.418	5.294	422.86790	23990	69883	-,66950	<b>718</b> 50	24510	21160
10.427	13.796	422.36610	23690	71630	67359	73620	24170	20850
10.446	28.832	422.74130	23920	73640	71280	75820	24370	21840
10.459	43.686	422.99590	23840	73770	70940	76010	24300	20970
10.460	48.115	422.36910	23030	-,73700	70650	75580	23500	20410
,	GRADIENT	.00000	.00000	.00080	.00000	.00800	.00000	.00000

SCALE =

CA20 747/1 02 S1

ORBITER DATA

(DGN130) ( 20 JAN 75 )

	PATA	

.0300

### SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO OY.NI 0000. \* 95HY LREF = 474.8100 IN. ZMRP = 375.0000 IN.20 936.6800 IN.

PARAMETRIC DATA

ALPHAC =	4.000	BETAC	-	.000
ELV-18 =	.000	ELV-08	•	3.000
ELEVON =	5.000	HACH	-	.500
BETAO =	.000	PHI	-	.000
ny =	10.000	DY		.000

GRADIENT INTERVAL \* -1.00/ 4.00 RUN NO. 659/ 0 RN/L = 3.31

ALPHAO	DŽ	Q(PSF)	PBI	P82	P84	LHLS	RHLS	PCAV
14.654	1.473	422.47770	23250	72470	67580	74910	23560	19530
14.652	4.559	422.97940	23840	72150	67920	74780	24170	20280
14.654	9.090	424.09340	25470	76230	70820	76450	25920	21850
14.654	16.527	422.60580	24430	<b>77</b> 460	74240	80220	24980	20910
14.662	31.535	422.48070	26350	81350	75890	84490	26730	22860
14,669	46.582	423.97380	25910	82460	79530	85350	26320	22480
14.666	61.500	422.61330	24650	81220	78620	84190	25040	21220
	GRADIENT	.00000	.00000	.00800	.00000	.00000	.00000	.00000

CA20 747/1 02 51

ORBITER DATA

(DGN131) ( 20 JAH 25 )

REFERENCE DATA

### PARAMETRIC DATA

LREF	-	474.8100	IN.	YMRP	=	1109.0000 0000 375.000	IN.YO	Alphac Elv-18 Elevon	-	4.000 .000 5.000	ELV-C		_	.008. 200.E 203.
EREF SCALE	=	936.6800 0020.	IN.	ZHRP	=	375.0000	IN.20	ELEVON BETAO	• •	5.000 .000	*	•	-	.003. 000.
CONTR		,0550						ΩX	_	20.000	DY		-	.000

RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 665/ 0

ALPHAO	DZ	Q(PSF)	PBI	PB2	<del>284</del>	LHLS	RHLS	PCAV
10.344	-1.157	424.62770	75160	69570	~.71860	27970	25590	26130
10.344	1.504	425.37530	73390	67890	70550	26320	24310	24810
10.359	6.352	425.24940	74870	69648	72260	26930	24980	25500
10.371	13.612	425.37210	74130	69770	72030	25530	23570	24430
10.391	28.736	423.59990	75460	71190	73800	25400	23500	24560
10.468	43.809	423.99690	76640	71840	74710	26320	24310	25630
10.408	48.295	423.74680	76200	71450	-,75160	25770	23940	~.25310
	GRADIENT	.00000	.00000	.00000	.00800	.80000	.00000	.00000

TABULATED SOURCE DATA - CA20 DATE OI DEC 75 (DCN131) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 02 St PARAHETRIC DATA REFERENCE DATA .000 ALPHAC = 4.000 BETAC = XHRP = 1109.0000 IN.XO 2690.0000 SQ.FT. .000 ELV-08 = 3.000 ELV-1B = .0800 IN.YO 474.8100 IN. YMRP . LREF .600 HACH ELEVON \* 5,000 375.0809 IN.20 ZMRP = 936.6800 IN. BREF = .000 BETAO = .000 PHI SCALE = .0380 20.000 DY .000 GRADIENT INTERVAL = -1.00/ 4.00 3.30 RUN NO. 666/ 0 RN/L = PCAV RHLS LHLS PB1 P82 PB4 Q(PSF) DZ **ALPHAO** -.23810 -.68530 -.70320 -.24120 -.21890 1.265 425.11880 -.74500 14.563 -.24500 -.24670 -.22490 -,73390 -.67370 -.70510 3.972 423.99990 14.561 -.22960 -.25060 -.70670 -.73639 -.25100 8.805 425.35430 -.75830 14.568 -.26630 -.24580 -.26708 -.77610 16.457 425.11720 -.80110 -.74110 14.572 -.25250 -.27398 -.27420 -.82620 -.77228 -.86460 31.737 424.12850 14.587 -.82230 -.26970 -.24780 -.27140 -:.77350 46,430 424,61990 -.03290 14.598 -.26390 -.24310 -.25920 -.82280 -.83290 -,77940 61.104 424.49550 14.592 -.00222 -.00255 -.00107 -.00203 .00429 .00410 GRADIENT -.41336 (DGN132) 1 50 YM 75 1 ORBITER DATA 747/1 02 SI CAED PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 8.000 BETAC = XHRP = 1109.0000 IN.XO 2690.0000 SQ.FT. ELV-IB = .000 ELV-08 = 3.000 .6089 IN.YO YMRP = 474.BICO IN. LREF HACH .500 ELEVON = 5.000 ZHRP = 375.0800 IN.ZO BREF = 936.6800 IN. .000 BETAO = .000 PHI SCALE = .0390 DY .000 .000 ĐΧ GRADIENT INTERVAL = -1.80/ 4.00 RN/L = 3.29 RUN NO. 655/ 0 LHLS RHLS **PCAV** PB4 LB5 Q(PSF) PBI · ALPHA0 ĐΖ -.77230 -.31370 -.26810 -.77530 -.71900 -3.370 423.33170 -.31070 10.325

-.77140

-.76430

-.77920

-.79090

-.79540

-.77920

.00000

-.29978

-.29910

-.28640

-.28270

-.28420

-.26720

.00800

422.95840

422.33470

.00000

11.674 422.57880

26.974 423.69990

41.940 424.07130

47.907 422.83040

-.284

4.265

GRADIENT

10.339

10.358

10.393

10.467

10.459

10.504

-.70250

-.70769

-.71390

-.74980

-.74120

-.75150

.00000

PAGE 515

~.25520

-.24680

-,24360

-.24180

-.24360

-.22790

.00000

-.76920

-.76740

-.78570

-.60930

-.80930

-.79730

.00000

-.30090

-.29150

-.28880

-.28550

-.28610

-.27000

.00000

DATE 01 DEC 75

REFERENCE DATA

CA20 747/1 02 51

## PARAMETRIC DATA

(DGN132) ( 20 JAN 75 1

SREF LREF BREF SCALE	=		in. In.	YHRP		.0000	IN.YO	ALPHAC ELV-IB ELEVON BETAO DX	-	8.000 .000 5.000 .009	BETAC ELV-OE HACH PHI DY		000. 000.E 000. 000.
-------------------------------	---	--	------------	------	--	-------	-------	---	---	--------------------------------	--------------------------------------	--	-------------------------------

## GRADIENT INTERVAL = -1.00/ 4.00

ALFMAD	02	Q(PSF)	PBl	PB2	PB4	LHLS	RHLS	PCAV
14,639	-1.095	422.32570	29380	76230	70020	79790	29560	24800
14.640	1.805	421.95050	29390	77980	71330	80830	29690	24990
14.551	6.322	422.32870	30280	81090	76910	84050	30500	25930
14.669	13.867	422.20360	29970	82550	77710	65090	30230	25810
14.780	28.918	422.45230	30190	85370	68500	69070	30430	26120
14.717	43.759	423.69990	30530	67120	83970	90840	30970	26628
14.720	58.717	422.20210	28200	85570	81580	88520	28340	24300
	COLCUENT	. 00000	ם מפתח.	.00000	.00000	.00000	.00000	.00000

(DGN133) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 02 SI

ORBITER DATA

## REFERENCE DATA

## PARAMETRIC DATA

SREF = 2550.0000 SQ.FT. 30MP = 1109.0000 IN.XO LREF = 474.8100 IN. YMPP = .0000 IN.YO BREF = 935.6800 IN. ZMRP = 375.0000 IN.ZO SCALE = .0300	ELY-IB = ELEVON = 5 BETAO =	.000 BETAC = .000 ELY-08 = .000 HACH = .000 PHI =	00.E 00.E 00.
--	-----------------------------------	---	---------------------

### GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.32

ALPHAO	DŽ	Q(PSF)	P81	<b>PB2</b>	P84	LHL5	RHLS	PCAY
10.250	-3.341	422.47320	26500	73510	69460	74050	27000	-,22920
10.261	279	423.96430	25100	72730	67890	73140	25520	21410
10.285	4.305	424.09020	25320	73580	69110	7430D	25720	21600
10.320	11.768	424.21290	25390	74290	70480	75520	25990	21730
10.383	26.778	422.84840	- 23840	74350	70540	75580	24370	20280
10.565	41.918	423.59450	24730	75000	72070	76920	25310	21040
	48.647	423.96900	24650	75780	72760	77350	25180	21040
10.441	COINTENT	00000	.ตกกกก	00000	.00000	.00000	.00000	.00000

8.220 423.37160

23.195 424.98820

38.211 425.10930

49.398 424.98660

.00000

GRADIENT

10.227

10.297

10.347

10.366

~.74650

-.77010

-.77530

-.77450

.00000

-.69830

-.72360

-.72620

-.72750

.00000

-.75110

-.77950

-.78870

-.78980

.00000

-.25530

-.26870

-.27600

-.27420

.00000

-.22900

-.24380

-.24980

-.24850

.00000

-.26820

-.28270

-.28960

-.28960

.00000

DATE OI DEC 75 TABULATED SOURCE DATA - CARD PAGE 517

CA20 747/1 02 SI ORBITER DATA (DGN133) | 1 20 JAN 75 | 1 PARAMETRIC DATA REFERENCE DATA SREF = 2690.0000 SQ.FT. XHRP = 1109,0000 IN.XO ALPHAC = 8.000 BETAC -.000 .0000 IN.YO ELV-18 = .000 ELV-08 -3.000 LREF = 474.B100 IN. YMRP = BREF -936.6800 IN. ZHRP = 375.0000 IN.ZO ELEVON = 5.000 HACH .500 BETAO = .008 PHI .000 SCALE = .0300 DX 10.000 BY .000 GRADIENT INTERVAL = -1.007 4.00 RN/L = 3.29 RUN NO. 650/ 0 PCAY ALPHAG DZ Q(PSF) PB1 P82 PB4 LHLS RHLS -1.391 423.48740 14.520 -.25690 -.70140 -.64900 -.73690 -.25990 -.22290 -.25910 -.71440 +.65640 -.74420 -.26128 -.22480 14.524 1.080 423.10750 -.23110 -.26280 -.74220 -.70820 -.77650 -.26730 14.540 6.153 422.35960 -.23420 14.567 13.465 422.48370 -.26500 -.76620 -.73B40 -.80710 -.27000 28.593 422.60730 -.27310 -.80710 ~.78170 -.84550 -.27740 -.24300 14.611 14.634 43.596 422.73540 -.27460 -.82130 -.77540 -.85770 -.27990 -.24610 58,440 423.60390 -.25470 -.81480 -.78620 -.85650 -.25990 -.22730 14.649 .00000 .00000 .00000 .00860 .00000 .00000 GRADIENT .00000 ORBITER DATA (DGN134) ( 20 JAN 75 ) CAZO 747/1 02 51 REFERENCE DATA PARAMETRIC DATA XMRP = 1109.0000 IN.XO ALPHAC \* 8.000 BETAC = .000 SREF = 2690.0000 SQ.FT. LREF = 474.B100 IN. YMRP # .0000 IN.YO ELV-18 -.000 ELY-08 = 3.000 375.0000 IN.20 ELEVON = 5.000 MACH .600 BREF = 936.6800 IN. ZMRP # BETAD = .000 .000 SCALE = .0380 PHI 20.000 DY .000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 668/ 0 RN/L \* 3.28 DZ Q(PSF) P81 PB2 P84 LHLS RHLS **PCAV ALPHAO** -3.785 423.99840 -.76350 -.71710-.77390 -.27360 -.24590 -.26450 10.184 -.28520 -.25860 -.29650 10.194 .797 424.36960 -,77820 -.72940 -.78180

o .

•									40004		~~	D11 55 5
		CAZO	747/1	02 51		DREITE	R DATA		(DGN1)	597 4	ZU .	JAN 75 1
REFERENCE D	ATA				•			PA	RAHETRI	DATA		
SREF = 2690.0000 SQ.FT.	XHRP :	= 1169.000	0 1N.XO				AL	PHAC =	8.000	BETAC	-	.508
LREF = 474.8100 IN.	YHRP :	090	0 IN.YO				EL,	V-19 =	.000	ELV-0	} =	3.000
BREF = 936.6800 IN.	ZMRP 4		D IN.ZO				EL	EVON =	5.000	HACH	-	.500
SCALE = .0300							96	- CAT	.000	PHI	-	.000
<b>43</b> 55							DX	. =	20.000	DY	-	.000
	RUN NO.	667/ 0	RN/L =	3.29	GRADIENT	INTERVAL .	-1.00/	4.00				
ALPHAO	DZ	Q(PSF)	PBI	ı	P82 .	PB4	LHLS	RHLS	PC	AY		
14.434	-1.973	425.11090	372	2580	66460	69840	25220	~.22760	2	5630		
14.439	1.123	423.37010	73	3470	67300	71810	26080	23700	2	6 <b>630</b>		
14.456	5.657	425.23210	75	5830	69180	74080	28380	24040		S950		
14.462	13.159	423.48770	78	9340	72230	76760	26750	24440		7450		
14.529	29.036	423.98540		1590	75860	00690	27660	25390		B390		
14.557	42.826	424.73480	83	3580	77740	83080	28760	26400		9580		
14.572	<b>57.</b> 824	<b>424.6</b> 0890		+020	77870	83420	~,27480	25160		8520		
	GRADIENT	.00000	00.	0000	.00000	.00000	-60000	.00000	3,	0000		
		CA20	747/1	02 SI		ORBITE	ER DATA		(DGN)	35) (	50	JAN 75 )
REFERENCE D	ATA							PA	RAHETRI	C DATA		
SREF - 2690.0000 SQ.FT.	XMRP	- 1109.00	08.NI 88				AL	PHAC =	4.000	BETAC	•	-5.000
LREF = 474.8100 IN.		<b>-</b> .000	00 IN.YO				EL	.v-18 =	.000	ELY-O	3 =	3.000
BREF - 936.6800 IN.	ZHRP	= 375.08	00 IN.ZO				E1.	EVON =	5.000	HACH		.600
SCALE = .0300							ĐĐ	■ CAT	.000	PHI	•	.000
							D	<b>(</b> =	.000	DY	*	10.000
	RUN NO.	729/ 0	RN/L =	3.27	GRADIENT	INTERVAL :	-1.00/	4.00				

ALPHAO	DZ	Q(PSF)	PB1	PB2	PB4	LHLS	RHLS	PCAV
10.520	-1.686	423.06520	31970	78640	77570	82740	~.31380	.08790
10.517	1.116	424.17930	33370	80650	79260	84510	32790	.07290
10.515	5.425	423.93060	22680	76890	75280	80420	29390	.10680
10.523	13.266	423.80940	29610	77730	78300	80720	29020	.10620
10.531	28.048	422.80750	27980	77210	75688	80300	27340	.12190
10.541	43.286	424.42010	27690	77670	76700	80780	27880	.13070
	COLDIENT	00000	ดกกกก	ממתמת.	ממתמם.	. ദവവവ	. നെന്നമ	.00000

5.590 424.17780

13.225 424.05660

28.323 424.05500

43.196 424.17780

GRADIENT

.00000

10.533

10.535

10.542

10.549

PAGE 519 TABULATED SOURCE DATA - CA2º DATE OF DEC 75 (DGN136) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 02 S1 PARAMETRIC DATA REFERENCE DATA BETAC " -5.000 4.000 XMRP . 1109.0080 IN.XO ALPHAC = SREF = 2590.0000 SQ.FT. .0080 IN.YO ELV-IB = .000 ELV-08 = 3.000 LREF - 474.8180 IN. YHRP \* ZHRP = 375.8000 IN.20 ELEVON -5.300 HACH .600 936.6800 IN. BETAD = .000 PHI .000 SCALE \* .0300 10.000 10.000 OY GRADIENT INTERVAL = -1.00/ 4.00 RN/L \* 3.26 RUN NO. 732/ 0 Q(PSF) F&I PB2 P94 LM.S RHLS PCAY ALPHAO DZ -1.02240 -2.314 423.53560 -.29316 -.75080 -.75730 -.80410 -.28820 10.431 1.200 424.28040 -.26660 -.74170 -.72940 -.77970 -.26130 -.99230 10,429 -.75890 -.75220 -.63110 -.28820 -1.01490 -.29390 10.436 5.568 424.15300 -.73000 -.26130 -.99160 12.949 424.52750 -.26650 -.74820 -,77720 10.442 28.270 424.40160 -.24960 -.73450 -.72830 -,76750 -.24240 -.98978 10.461 -.70890 -.74920 -.21620 -.97720 -.22090 -.71570 10,477 43.203 423.77990 -.98030 10.478 47.066 423.41200 -.22150 -.71830 -.71010 -.74850 -.21660 .00000 .00000 .00000 .00000 .000000 GRADIENT .08080 .00000 CA20 747/1 02 51 ORBITER DATA (DGN137) ( 20 JAN 75 ) PARAMETRIC DATA REFERENCE DATA XHRP = 1169.8880 1N.XO ALPHAC = 4.000 BETAC = .cea SREF = 2690.0000 SQ.FT. YHRP = .0000 IN.YO ELY-IB -.000 ELV-08 . 3.000 474.8100 IN. ZHRP \* 375.0000 IN.ZO ELEVON -5.000 HACH **.**600 BREF -936.6800 IN. BETAG = .020 PHI .000 SCALE = .0398 DY 10.000 .000 GRADIENT INTERVAL = -1.00/ 4.00 RUN NO. 727/ 0 RM/L = 3.35 685 PR4 LHLS RHLS PCAY **ALPHAD** DZ Q(PSF) 281 -.73630 -.77910 -.30300 .10050 10.539 -1.720 423.56680 -.30710 -.76440 -.29560 .11050 -.29680 -.75980 -.73400 -.77060 10.532 1.145 422.68690 -.28790 -.76160 -.72890 -.76750 -.28680 .12190

-.71750

-.73460

-.74E00

.00000

-,74820

-,76240

-.77280

.00000

-.26360

~.26430

-.26500

.00000

-.75728

-.77610

-.78590

.00000

-.26060

-.26120

-.26120

.00000

.14640

.14820

.15200

.00805

PAGE 52G TABULATED SOURCE DATA - CA20 DATE DI DEC 75 (DGN138) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 02 S1 PARAMETRIC DATA REFERENCE DATA .800 ALPHAC = 4.000 BETAC = XHRP = 1109.0000 IN.XO SREF = 2690.0000 50.FT. .000 ELV-IB . ELY-CE = 3.000 .0000 IN.YO LREF = 474.8100 IN. YHRP = 5.000 HACH .600 ELEVON = ZMRP = 375.0000 IN.ZO BREF = 936.6800 IN. PHI .000 .000 BETAO -.0300 SCALE -10.000 ĐΧ 10.000 DY GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.29 RUN NO. 731/ 0 RHLS PCAY LHLS PBI 685 **PB**4 Q(PSF) ALPHAD -.98160 -.25860 -.71389 -.69070 -.73270 -.26060 -1.917 424.02860 18.439 -.68500 -.25520 -.98220 -.71830 -.72780 1,309 424.40160 -,25700 10.439 -1.00670 -.2687£ -.69980 -.74300 -.27100 -.73000 5.640 423.90740 10.441 -.70150 -.74730 -.25653 -1.00920 13.088 424.52750 -.25920 -.73000 10.446 -,25930 -1.03370 -.72770 -.75690 -.26360 -.75900 10.454 28.151 423.90740 -1.02490 -.23500 -.76010 43.272 423.52950 -.24000 -.73130 -.71580 10.475 -1.02050 -.72910 -.70780 -.75400 -.22900 -.23410 47.651 422.65420 10.474 .00000 .00930 .00000 .00000 .00000 .00000 .00000 GRADIENT

CA20 747/1 02 SI

ATAC REFIERO

(DGN[39) ( 20 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = LREF = BREF = SCALE =	474.8100 936.6600	IN.	YHRP	2 8		IN.YO	ALPHA ELV-I ELEVO BETAO OX	B	•	4.000 .000 5.000 .000	BETAC ELV-08 HACH PHI DY		5.000 3.000 600. 000.
---------------------------------------	----------------------	-----	------	--------	--	-------	--	---	---	--------------------------------	--------------------------------------	--	--------------------------------

RIM NO. 729/ 0 RN/L = 3.25 GRADIENT INTERVAL = +1.89/ 4.1	DIM NO	7297.0	RN/L =	3.25	GRADIENT	INTERVAL =	-1.00/	4.00
---	--------	--------	--------	------	----------	------------	--------	------

ALPHAD	DZ	Q(PSF)	PBI	P82	P84	LHLS	RHLS	PCAV
10.550	-1.816	424.54130	34550	77150	77610	81820	33940	.05590
10.536	1.291	422.67340	32480	75330	74030	78650	31780	.07100
10.535	5.717	424.53810	31300	76240	75220	80300	30770	.07790
	13.051	423.30020	29680	75110	75680	79810	29090	.08730
10.539	29.194	422.52210	28720	75990	77210	81270	28140	.09480
10.539		423.E4650	26730	75920	76650	80170	26260	.11750
10.541	43.343		-,00000	.00000	.00000	-00000	.00000	.00000
	COLDIENT	.00000	- 400000	-44444	*02000	100000		

ORIGINAL PAGE IS OF POOR QUALITY

DATE 01 DEC 75

TABULATED SOURCE DATA - CA20

PAGE 521

DATE OF DEC 12	TABLETTE STORES						
	CA20	747/1 02 51		ORBITER DATA	1	(DGN140) (	20 JAN 75 1
REFERENCE	E DATA				PA	RAHETRIC DATA	
	FT. XHRP = 1189.00	00 IN.XO			ALPHAC =	4.000 BETAC	- 5.000
SREF = 2690.0000 SQ.F		3D IN.YO			ELY-18 =	.000 ELV-09	= 3,600
REF = 474.8100 IN.	••••	30 IN.ZO			ELEVON =	5.000 HACH	600
REF = 936.6800 IN.	ZrRP = 3/5:00	30 114.20			BETAG =	.000 PHI	.000
SCALE = .0300						10.000 DY	- 10.038
	RUN NO. 733/ 8	RN/L = 3.25	GRADIENT	INTERVAL = -1.0	10/ 4.00		
ALPH:	o DZ QCPSF	) PB1	P82	PB4 LHLS	RHLS	PCAV	
10.45		026720	69630	68730730			
10.45		026900	69180	66450710			
10.45		027760	71830	6964073			
10.45		0088 0	73130	7158075			
10.469		022960	71390	71060749			
10.47		023550	73000	7260075			
10.47		023850	72940	72830769	=		
	GRADIENT .0000	<b>0</b> 0000. 0	.00000	.00000.	10000. 000	.00000	
	CA20	747/1 OLS	1	ORBITER DATA	A.	(DGM141) (	20 JAN 75 1
REFERENC	E DATA				P	ARAHETRIC DATA	
SREF = 2690.0000 SQ.	FT. XHRP = 1109.00	OD IN.XO			ALPHAC =	4.000 BETAC	
LREF = 474.8100 IN.		00 IN.YO			ELY-18 =	10.000 ELV-0	
REF = 936.6800 IN.		80 IN.ZO			ELEVON -	5.000 MACH	= .600
SCALE = .0300	•				BETAO =	.000 PHI	= .000
701100					DX =	.000 DY	= .600
	RUN NO. 707/ 0	RN/L = 3.25	GRADIENT	INTERVAL = -1.	00/ 4.00		
ALPH	IAO DZ QIPSF	r) PB1	P82	PB4 LHL		PCAV	
10.52	3 -1.884 +24.1697	7034030	35780	3324033			
10.50	978 422.429	so <b>3329</b> 0	34550	3114032			
10.50		30 <b>33150</b>	34230	<b>3080032</b>			
10.50	13.055 422.801	D33510	34420	3091032			
10.51	6 28.002 422.79B	02288 0	34360	3097032			
10.58	23 42.970 423.176		34360	3108033			
	GRADIENT .000	00000. 00	.00000	.00000.00	0000. 000	0 .0000	

ORBITER DATA

(DOHL41) ( 20 JAN 75 )

O.E.	FFRE	M.	1114	

### XHRP = 1109.0000 1H.X0 SREF - 2680.0000 SQ.FT.

.0000 IN.YO 474.8100 IN. YMEP = ZHRP = 375.0000 IN.ZO 936.6800 IN. BREF -

SCALE = .0380

### PARAMETRIC DATA

.000		BETAC	4.000	ALPHAC =	
13.000	•	ELV-08	10.000	ELY-18 =	
.600	•	HACH	5.000	ELEVON -	
.000	•	PHI	.000	BETAD =	
.000		BY	.020	ny =	

### GRADIENT INTERVAL = -1.80/ 4.00 RN/L = 3.19 RUN NO. 708/ 0

ALPHAD	DZ	Q(PSF)	PBI	PB2	P84	LHL5	RHLS	<b>PCYA</b>
	.024	423,54500	37650	37600	35520	37430	36890	17270
14.B11	*	422.67490	34470	34420	32450	34370	33860	14250
14.784	3.045		34400	34230	32390	34310	33730	+, 14320
14.771	7.498	422.16720	36100	35850	34270	35840	35280	+.16080
14.765	14.984	423.54030	34788	34160	32960	34620	33860	14690
14.762	29.993	422.91890		33450	31990	33700	33050	13940
14.773	45.117	423.90850	33880		.01016	.01013	-01003	.01000
	GRADIENT	-,28805	.01053	.01053	.01010	,01013		

CA20 747/1 01 SI

ORBITER DATA

(DCH142) ( 20 JAN 75 )

### REFERENCE DATA

XMRP . 1109.0000 IN.XO SREF - 2590.0000 50.FT. .0090 IN.YO YMRP = 474.8100 IN. ZHRP = 375.0000 IN.ZO 936.6800 IN. BREF = .0380 SCALE =

PARAMETRIC DATA

.000 4.000 BETAC = ALPHAC = -7.000 -10.000 ELY-08 \* ELV-IB = HACH \* .500 ELEVON = 5.000 .000 PHI BETAD = .000 .000 .000 DY DX

### GRADIENT INTERVAL - -1.00/ 4.00 RN/L = 3.26 RUN NO. 709/ 0

ALPHAO 10.510 10.492 10.498 10.491 10.501	0Z -2.321 .765 5.227 12.622 27.760 42.754 GRADIENT	QLPSF1 422.80750 422.43090 423.67710 423.30410 423.42530 422.18070 .00000	PB1320402997030710298202945028270 .00000	PB2334603136032090309903047029240 .00000	P84304502029020970278902749026130 .00000	LHLS313802949030220292502900027780 .00000	RHLS319102982030560295502922027940	PCAV 12870 10930 11740 11050 10990 09730
--	---	--	--	--	--	---	------------------------------------	--

### GRADIENT INTERVAL = -1.00/ 4.00 RM/L = 3.22 RUN NO. 710/ 0

ALPHAO	DZ	Q(PSF)	PBI	<b>BBS</b>	PB4	LHLS	RHLS	PCAY 12680
14.880	.715	422.92950	33290	33520	31020	33090	32653	
• - /	3.826	423.05380	31890	32290	29770	31750	31370	11490
14.655			32110	32420	-130000	31930	31570	11740
14.843	8.214	422.92950	• • • • • •		28120	29980	29550	09920
14.833	15.830	422.17920	30190	~.30280		•	31370	11970
14.832	30.666	422.92740	31890	32030	30060	31810		
	45.837	423.79510	30340	30280	28350	30160	25590	10360
14.845	GRADIENT	J3996	.00450	.00395	.00402	.00431	.00411	.00303

DATE 01 DEC 75 TABULATED SOURCE DATA - CA20

ORBITER DATA

(DGN143) ( 20 JAN 75 )

REFERENCE DATA

PARAHETRIC DATA

							ALPHAC	-	4.000	DETAC	-	. 896
SREF .	2690.0000	5Q.FT.		-			RUD-U	-	15.000	RUO-L		15.000
LREF =	474.8180	IN.	<b>XHRP</b>		•	IN.YO	ELEVON	#	5.000	AILRO	ı -	.000
BREF =	936.6800	IN.	ZHRP	-	375.0000	IN.ZO	BETAO	-	.000	PHI	•	.000
SCALE =	.0300						DX	-	.000	DY	-	.000

CA20 747/1 01 51

	RUN NO.	711/ 0 RN/L	<b>= 3.26</b>	GRADIENT	INTERVAL -	-1.00/	4.00	
ALPHAO 10.504 10.485 10.480 10.486 10.495	0Z -2.028 .931 5.560 12.957	423.55120 - 423.19130 - 422.30880 - 423.80300 - 422.93400 -	PB1 33290 34770 30930 31740 31080 31740	P82 -,34620 -,35860 -,32030 -,32740 -,31900 -,32290	P84 31540 32680 28690 29370 28580 29030	LHLS329703437030590312603047039770	RHLS 33190 34530 30530 31370 30830 31370	PCAV 14250 15570 11990 12930 12240 12490
10.513	42.996 THAILDARD	00000.	.00080	.00000	.00800.	.00000	.00000	.00000
ALPHAO	RUN NO.	712/ 0 RN/L	= 3.23 PB1	GRADIENT P82 34490	PB4 31650	LHLS 33950	RHLS 33460	PCAV 12370

ALPHAO 14.850 14.835 14.823 14.816 14.812	0Z .267 3.331 7.779 15.439 20.319 45.332 GRADIENT	Q(PSF) 422.01500 423.00610 423.06640 423.19390 423.19090 423.43630	PB1341803263031600329203351034400 .00508	P82344903267031710330703352034170 .00529	P84316503011029200306303125031990 .00503	LHLS339503242031440327303340034130	RH_S334603498036980323103265033620 .00483	PCAV 12370 11050 10300 11870 12560 13370
--	--	--	--	--	--	------------------------------------	---	--

ORBITER DATA

(DGH144) 1 20 JAN 75, 3

### REFERENCE DATA

## PARAHETRIC DATA

	=	2690,0000 SQ. 474,8100 IN. 936,6800 IN.	. YHR	-		IN.YO	ALPHAC RUO-U ELEVON BETAO DX	=	4.000 15.000 5.000 .080	BETAC RUD-L ALLROH PHI DY	=	.000. 000. 000. 000.
--	---	---	-------	---	--	-------	--	---	----------------------------------	---------------------------------------	---	-------------------------------

### RUN NO. 725/ 0 RN/L = 3.35 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO	ΩZ	O(PSF)	PB1	P82	PB4	LHLS	RHLS	PCAV
10.493	-2.198	422,64270	26570	-,68940	66940	71610	26320	08850
10.490	.873	424.58430	- 24360	68260	66650	71120	24230	05590
10.498	5.397	424.08080	23250	69820	68190	71610	23290	05530
10.503	12.963	424.08240	22010	78460	69560	<b>7</b> 2890	23020	05210
10.527	28.053	424.44900	22000	-,70980	78410	73690	22350	04400
10.533	42.969	423.33380	23400	73060	72060	74790	23630	05460
10.555	GRADIENT	.00000	.00000	.03000	.00000	.00000	.00000	.00000

CA2D 747/1 OI SI ORBITER DATA (DGN145) I 20 JAN 75	(3)	•
--	-----	---

#### REFERENCE DATA

### PARAMETRIC DATA

SREF	_	2690.0000 SQ.F1	Y:400		1109.0000	IN.XO	ALPHAC =	4.000	BETAC	•	.008
			•		.0000		ELV+IB =	.000	ELY-08	*	3.000
LREF	-		YMRP			-	ELEVON =	.000	HACH	*	.600
BREF	•	936.6800 IN.	ZHR	=	375.0000	IN. 20		.000			-000
SCALE	-	.0300					BETAO =				
							· DX =	.000	DY	-	.888

# RUN NO. 719/ 0 RN/L = 3.37 GRADIENT INTERVAL - -1.00/ 4.00

ALPHAO 10.508 10.485 10.479 10.493 10.514	02 -2.315 .910 5.273 12.814 27.985 42.855	Q(PSF) 423.51620 423.513980 423.51280 423.629270 423.02490 423.76610	P81329203093029380298202783027750	PB2 34290 32610 31120 31630 29690 29560	PB4 32900 31310 29880 30220 28050 27780	LHLS329103101029610301602808027960	RHLS 33050 31230 29950 30290 28270 28200	PCAV 14950 12810 11430 11970 09660 09540
10.516	42.655 GRADIENT		27750 .00000	29580 .00000	27789 .00888	27960 .00000	88585 00080.	09540

### RUN NO. 720/ 0 RN/L = 3.36 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 14.834 14.809 14.756 14.787 14.785 14.765	0Z .251 3.316 7.691 15.222 30.199 45.162 CRADIENT	Q(PSF) 422.89570 423.76450 423.76610 423.26570 423.26260 422.76620 ,23436	PB1304103034029670291602964029380 .00023	P82324803348031830313103078031500	P8429260269702606027260265802658000995	LHLS305903046089730290502851028940 .00043	84LS 36530 30560 29890 29280 28740 29910 .08023	PCAV 10110 09960 08980 08290 07470 08040 .00082
--	--	--	--	-----------------------------------	--	---	--	--



DATE OF DEC 75

TABULATED SOURCE DATA - CARO

CA20 747/1 OI SI

ORBITER DATA

(DGH146) ( 20 JAN 75 )

REFERENC	E UTI	

SREF	=	2690.0000	50.F?	XHRP	=	1109,0000	IN.XO
LREF	=	474.8100	IN.	AHUB	=	.0008	IN.YO
BREF	-	936.6600	IN.	ZHRP	•	375.0000	IN.20
SCALE	=	.0300					

ALPHAC	*	4.000	BETAC		.00
ELV-IB	-	.000	ELV-0B	•	3.00
ELEVON	•	10.000	HACH	=	.60
BETAO	#	.000	PHI	=	.00

PARAHETRIC DATA

DIN NO 71	147 R	RN/L =	3.32	GRADIENT	INTERVAL =	-1.00/	4.00
-----------	-------	--------	------	----------	------------	--------	------

### RUN NO. 715/ 0 RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO 14.836 14.814 14.803 14.796 14.790	02 .243 3.412 7.911 15.416 30.262 45.331	0(P5F) 423.96670 423.10100 423.47400 424.09410 424.34120 422.97300	PB1 37210 34220 34250 35800 37130 35580	PB2393803599035470366303793036110	P84 35580 33190 32620 33870 35240 33420	LHLS370503495034190354703694035170	RHLS 36890 34670 34060 35480 36760 35210	PCAV 15700 13560 13060 14440 15700 14190
	GRADIENT	27321	.00723	.00754	.00754	.00694	.00701	.00675

PAGE 526 TABULATED SOURCE DATA - CA20 DATE OI DEC 75 (DGN197) ( 28 JAN 75 ) ORBITER DATA CA20 747/1 OL SI PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 N.XO 3.000 ELV-IB = .000 ELY-08 = YMEP = .0000 IN.YO 474.8100 IN. .300 10.000 HACH -ELEVON -ZHRP = 375.0000 IN.20 936.6800 IN. BREF = .000 PHI BETAO -.000 SCALE # .0300 DY .000 .000 ВX GRADIENT INTERVAL = -1,00/ 4.00 RN/L = 1.89 RUN NO. 717/ 0 PCAY P94 LHLS RH.S PB2 Q(PSF) PB1 ΩZ ALPHAD -.07600 -, 12540 -.12660 -.10530 -2.619 126.39020 -.12900 -.13140 10.141 -.12180 -.06970 ~.11970 .296 126.53600 -, 12620 -.12380 -.09900 10.138 -.11650 -.06290 -.09340 -.11170 -,11960 -.12000 4.872 127.11910 10.135 -.12590 -.07350 -.12030 -.13100 -.10250 -.12920 12.202 126.39040 10.138 -.06720 -.11110 -.11650 -.12060 -.09E68 25.995 126.09880 -. 12030 10.139 -.11110 -.11440 -.05840 -.11890 -.11930 -.09620 10.142 42.221 126.97320 .00000 .00000 .00000 .00000 GRADIENT .00000 .00000 .00000 (DGN148) ( 20 JAN 75 ) ORBITER DATA CA20 747/1 OI SI

### REFERENCE DATA

#### SEEF = 2590.0000 SO.FT. XXXP = 1109.0000 IN.XO .0000 IN.YO **Alass** = LREF = 474.0108 IN. 2HRP = 375.0000 IN.ZO 938.6800 IN. CREF = .0300 SCALE =

# 4.000 BETAC -.000

		,,,,,,			
ELV-IB	•	.000	ELV-08	•	3.000
ELEVON	-	10.000	MACH	•	.705
BETAO	=	.600	PHI		.000
DX	=	.000	DY	-	.000

PARAMETRIC DATA

RUN NO. 716/ 0 RM/L = 3.54 GRADIENT INTERVAL = -1.00/ 4.0	RUN NO.	716/ 0	RN/L =	3.54	GRADIENT	INTERVAL -	-1.00/	4.00
---	---------	--------	--------	------	----------	------------	--------	------

ALPHAO 10.694 10.676 10.669 10.672 18.678 10.687	0Z -1.671 1.362 5.761 13.248 28.136 43.386	Q(PSF) 529.30160 529.16970 529.76610 529.53780 529.30680 530.11770	PB1437004075041410377203765036170	P824409041110416303774037590	P84419503955039560357503569035690	LHLS4396041150419803798036390	8HLS 43290 40260 40730 36020 35620 35140	PCAY21410167701955016200161401475000000
101001	GRADIENT	.00000	.00500	.00000	.00000	.00000	.00000	.00000

DATE OI DEC 75

TABULATED SOURCE DATA - CA20

747/1 01 51

ORBITER DATA

(DGH[49) (29 JUH 75 )

PAGE 527

DCE	FDF	T.C.	DAT	1

REFERENCE D	ATA				PA	RAMETRIC DATA	
SREF = 2690.0000 SQ.FT. LREF = 474.8100 IN. BREF = 936.6800 IN. SCALE = .0300	YMRP =	0X.NI 0000.0011 0Y.NI 0000. 0X.NI 0000.27E			ALPHAC = RUO-U = ELEVON = BETAO = DX =		000
	RUN NO. 722	2/ 0 RN/L =	3.33 GRADIE	NT [NTERVAL = -1.	10/ 4.00		
ALPHAO 10.503 10.487 10.482 16.481 10.494	1.016 42 5.470 42 12.919 42 28.155 42		015041550 090040190 079039090 038039670 079038930 057039380 0000 .00000	P84 LHL:401903953876038537570377380803853734037536940365 .00000 .000	33040390 58039040 18037900 10038570 10037630 100 .00000	19340	
ALPHAO 14.792 14.760 14.769 14.755 14.753	2.855 42 7.573 42 15.007 42 30.023 42 45.056 42	0(PSF) F81 23.9534042 22.9557040 23.2043090 23.0230040 24.4443040 23.7016039 36583 .00	230042910 009040710 020039670 001040390 067040900	P84 LHL9407004173953039537620397394203973916040137510395 .00796 .007	.0041800 .2039580 .1038640 .8039380 .7040050 .2038300	PCAY20530185901771018450190901746000711	

			CAZO	747/1		(	CARRIER DAT	A	CHONO	543 (25 NO	N 75 1
	REFEREN	CE DATA							PARAHETRIC	DATA	
SREF = LREF = BREF = SCALE =	9500.0000 SQ 327.7800 IN 2348.0400 IN .0300	. YHRP	• .0	000 IN.XC 000 IN.YC				BETAC = ELV-OB = RUD-L =	-5.000 3.000 .000	ELV-I8 = RU0-U = RU0747 =	.000 000. 000.
			ŘN/L ≠	3.27	GRADIENT INT	TERVAL1	.00/ 5.00				
HACH	= .600 ALPHAH 2.000 4.000 6.000 8.000 10.000 12.000 GRADIENT	CN .21009 .38969 .57029 .75184 .93004 1.05103 .68930	CA .07942 .05106 .03520 .01035 .00096 .00251	CLM .00178 64604 08340 10342 10652 12312 02390	CY .09722 .09484 .09183 .08796 .08911 .08981	CBL .01307 .01505 .01674 .01792 .01762 .01762	CYN 02331 02194 02006 01759 01784 01747 .00069	CL .20719 .38448 .56349 .74308 .91578 1.02832	CO .08670 .08699 .09461 .11469 .16235 .22114	CSL .01224 .01349 .01455 .01529 .01392 .01391 .08062	CLN 02375 02294 02170 02001 02057 02075 .00041
			CA28	747/1		c	ARRIER DATA	٨	(HGN03	S) (25 NO	V 75 1
	REFEREN	CE DATA							PARAHETRIC	DATA	
SREF = LREF = EREF = SCALE =	5500.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300	. YMP	= .00 = 190.80	100 IN.XC 100 IN.YC 100 IN.ZC				BETAC = ELV-08 = RUO-L =	.000 3.000 000	ELV-18 = RUD-U = RUD747 =	.000 .000
			RN/L =	3.31	GRADIENT INT	ERVAL = -1	.00/ 5.00				
MACH •	680 ALPHAN 2.000 4.000 6.000 8.000 10.000 12.000 GRADIENT	CN .20298 .38765 .57352 .75259 .91875 1.05884 .09233	CA .08521 .06673 .04041 .01418 .01131 .00584 00924	CLM .01725 03359 08767 10541 07921 10533 02842	CY 00721 00835 01038 01058 01163 00941 00057	CB. +00004 -00016 -00072 -00032 -000136 -00010	CYN .00180 .00181 .00216 .00242 .00279 .00184	CL .19986 .38205 .56525 .74329 .60263 1.03449 .69108	CD .09225 .09251 .10014 .11679 .17058 .22595	CSL .08010 08004 08009 .080092 68029 68095	CLN .00180 .00182 .00222 .00244 .00209 .00209

.26299

-.01690

18.000

GRADIENT

.65216

-.00016

.25393

.02563

-.00766

-.00005

.00060

.00004

PAGE 529 DATE 04 DEC 75 TABULATED SOURCE DATA - CA20 CA20 747/1 CARRIER DATA (MGN936) ( 25 NOV 75 ) REFERENCE DATA PARAMETRIC DATA XHRP = 1339,9000 IN.XC BETAC = 5.000 ELV-IB = .000 5500.0000 50.FT. LREF 327.7800 IN. YHRP = .0000 IN.YC ELV-08 = 3.000 RUD-U = .000 190.8000 IN.ZC RU0747 = .000 ZHRP = RUO-L = .000 BREF = 2348.0400 IN. SCALE = .0300 RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 5.00 HACH = .600 C5L CLN CLH CBL CYN CL CD ALPHAH CN CA CY .03011 2.000 .21484 .07063 -.00945 -.12262 -.01448 .02962 .21197 .08608 -.01344 4.000 .39363 .06034 -.05439 -.11703 -.01616 .02678 .38846 .08765 -.01425 .02764 .57576 .03480 -.08729 -.11289 -.01794 .02434 .56897 .09480 -.01530 .02608 6.000 -.10926 .02204 .11501 -.01559 .02446 8.000 .75973 .00937 -.11637-.01894 .75103 -.01644 -.01225 .02518 10.000 .93260 .00307 -.12870 -.11126 .02267 .91790 .16497 -.11002 -.01981 .02125 1.03963 .22101 -.01496 .02490 .00003 -.13188 12,000 1.06296 GRADIENT .08939 -.00915 -.02247 .00280 -.00084 -.00142 .08825 .00079 -.00041 -.00113 CARRIER DATA (MGN037) ( 25 NOV 75 ) CYSO 747/1 01 51 REFERENCE DATA PARAMETRIC DATA ALPHAC = 4.000 BETAC = \_000 SREF = 5500.0080 SQ.FT. XMRP = 1339.9000 IN.XC .0800 IN.YC ELV-18 \* .000 ELV-08 \* 3.000 YHRP = 327.7800 IN. ELEVON = BETAO = 190.8800 IN.ZC 5.000 .000 BREF - 2348.0400 IN. ZHRP = SCALE -.0300 PHI .089 DX .000 .000 DΖ 7...30 GRADIENT INTERVAL = 3.29 .00/ 12.00 MACH = .600 CY CBL CYN CL CD CSL CLN **ALPHAO** CN CA CLH .00070 -.05853 -.00906 .00045 .00075 .45978 .10353 .00052 6.000 .47783 .05554 .00032 .00074 .18018 .08039 .00071 8.000 .44787 .05523 -.01603 -.00838 .43919 -.00931 .00050 .00068 .40385 .09650 .00057 .00052 10.000 .41156 .05502 .03836 .09086 -.00939 .00054 .00050 .36949 .09259 .00059 .05053 12.000 .37699 .05454 .00101 .33524 .08933 .00070 .00094 14.000 .34259 .05472 .13109 -.00978 .00060 .18460 -.00947 .00065 .00071 .29659 .08432 .00072 .00054 16.000 .30364 .05360

.25527

.01681

.00013

-.00003

.07881

-.00183

.00007

-.00003

.00061

.00003

.003

5.000

.000

.000

7.500

CA20 747/1 01 S1

CARRIER DATA

(HGH038) ( 25 NOV 75 )

PARAHETRIC DATA

4.000 ELY-18 =

3.000 ELEVON -

10.000 BETAO =

.000 DX

.000 DZ

ALPHAC =

ELV-08 =

ALPHAO =

PHI =

		~	•
10.5	ERENCE	UAI	

#### SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC LREF = 327.7800 IN. YHRP \* .0000 IN.YC

BREF = 2348.0400 IN.

SCALE = .0300 ZMRP = 190.8000 IN.ZC

### RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

HACH	=	.600										
		BETA	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL.	CLN
		-10.000	.44664	.04140	05785	.20812	.03441	04030	.44015	.08639	.03016	04359
		-7.000	.42723	.04522	02185	.14417	.02600	03028	.42046	.08826	.02280	03275
		-5.000	.41424	.04923	.01048	.10117	.01888	02180	.40711	.09097	.01658	02350
		-3.000	.40780	.05228	.03326	.05865	.01106	01402	.40038	.09341	.00958	01E97
		-2.000	.40586	.05367	.03956	.03700	.08744	~.00954	.39931	.09459	.00543	01035
		-1.000	.40589	.85499	.04291	.01510	.00347	00372	.39821	.02591	.00307	08485
		.088	.40792	.05540	.04409	01145	00017	.00186	.40019	.09650	-00002	.00168
		1.080	.40830	.65515	.04582	03319	00368	.CO69B	.40060	.09631	00295	.00732
		2.000	.40967	.05413	.03962	05609	00757	.01252	.40206	.09542	00526	.01322
		3.000	.41359	.05228	.02959	07974	01108	.01762	.40615	.09399	00923	.01655
		5.000	.42330	.04861	.08924	12000	01798	02405	.41619	.09128	01545	.02575
		10.000	.45515	.03990	04913	22492	03218	.04140	.44877	.08579	02782	. 64444
		GRADIENT	.00093	+.00003	+.08018	+.02247	00369	.00486	.00093	-00007	00318	.ກຸກຮວາ

### TABULATED SOURCE DATA - CA20

(MGN039) ( 25 NOV 75 ) CA20 747/1 01 51 CARRIER DATA PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 ELV-18 = .000 XHRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. 3.000 ELEVON -5.000 ELV-08 = .0000 IN.YC 327.7800 IN. YHRP LREE .000 ALPHAO = 10.000 ETAO = ZHRP 190.8000 IN.ZC BREF = 2348.0400 IN. .000 DX .000 PHI SCALE # .0300 7.500 DY 10.000 DZ GRÁDIENT INTERVAL = -5.00/ 5.00 .600 MACH = CSL CLN CY CBL CYN CL CO CA CLH BETA CH -.03747 .43976 .69010 .03535 -.04126 .03934 .10684 .44662 .04517 -.09568 -10.000 -.03254 .42115 .09086 .02790 -.02955 .04774 -.06126 .12755 .03105 -7.000 .42818 .02207 -.02366 -.04079 .08491 .02436 -.02130 .41507 .09381 -5.000 .42244 .05127 -.01439 .01717 -.01262 .40830 .09600 .01580 .04120 -3.000 .41593 .05411 -.01160 -.06997 .40629 .69590 .01258 .05521 .00109 .02096 .01352 -.00864 -2.000 .41402 .09750 .00938 -.00557 .00990 -.00459 .40590 .00037 .01297 -1.000 .41369 .05584 -.00159 .00528 -.00095 .40570 .09819 .41356 .05554 .02413 -.01675 .00541 .000 .40600 .09821 .00316 .00174 .03290 -.03566 .00297 .00205 .05652 1.000 .41387 .00004 .00525 .09771 -.05435 -.00849 .00523 .40550 .03576 2.000 .41342 .05505 .00934 .40702 .09659 -.00283 .04003 -.07409 -.00376 .00901 .41472 .05480 3.000 .01891 .41324 .09312 -.00858 .01938 -.11688 -.01055 .42056 .05073 .03823 5.000 -.02213 .04484 .44066 .08308 -.23242 -.02647 .04158 .03802 -.00751 10.000 .44681 -.00308 .00418 .00001 .00820 -.01989 -.00349 .00385 -.00018 GRADIENT -.00018 .00002 (MGN848) ( 25 NOV 75 1 CARRIER DATA 01 51 AT38 AT39 CAZO 747/0 PARAMETRIC DATA REFERENCE DATA -000 ALPHAC = PETAC = XHRP = 1339.9000 IN.XC .000 SREF = 5500.0000 SQ.FT. .000 ELV-08 -3.000 ELV-IB = .0000 IN.YC LREF = 327.7800 IN. YHRP -600 ELEVON = 5.000 MACH ZMRP = 190.8000 IN.ZC BREF = 2348.0400 IN. PH! .000 SETAD = .000 SCALE = .0300 .000 DY .000 ĐΧ GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.378.000 ALPHAO = CD CSL CLN CYN CL CY CBL CLH ĐΖ CN CA .00113 .00095 . 16721 .08018 .00099 .07445 .18715 -.00751 .00110 .080 .16983 .00039 .08150 .00124 -.00638 .00123 .00043 .18041 .17528 .07533 3.000 .18397 .00133 -.00003 .00001 .18624 .08212 -.00556 .00133 .17102 7.500 .18891 .07576 .00141 .08424 .00094 .00144 .21339 .07699 .13195 -.00801 .00089 15.000 .21611 .00235 .25599 .08542 .00051 .00233 .07274 -.00926 .00054 .07778 30.000 .25972 .00640 .00237 .02664 -.00933 .00032 .00239 .27249 .04992 .27522 .07754 45.000 -.00351 .00234 .00249 .00246 -.00343 .23776 .07787 .06984 .18864 .24024 60.000

.00038

-.00396

.00029

.00441

GRADIENT

-.00019

.00004

.00448

.00044

.00004

-.00019

PAGE 531

CA20 747/0 01 St AT38 AT39 CARRIER DATA (HGN041) ( 25 NOV 75 1

		CALD		01 31 77.00	V173 C	Watter Dair	1	112011		
REFERENCE	DATA						P	ARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	TT. XHRP YHRP ZHRP	.00	O IN.XC O IN.YC O IN.ZC				ALPHAC = ELV-18 = ELEVON = EETAO = EX	4.000 .000 5.000 .000	BETAC = ELV-0B = HACH = PHI = DY =	.000 3.080 .000 .000
•		RN/L =	E.27	GRADIENT INTI	ERVAL = -1	.00/ 4.00				
ALPHAO = 12.000										
02 .000 3.000 7.500 15.000 50.000 45.000 60.000 GRADIENT	CN .46630 .47936 .59152 .53201 .57480 .60270 .62093 .00435	CA .03548 .03638 .03743 .03792 .03704 .03531 .03495 .00030	CLH .10572 .10554 .08205 .04048 08949 03905 05909 08086	CY00809 00805 00805 01052 01072 01070 01050 00012	CBL .00080 .00069 .00042 .00011 00024 00035 00045	08023 .08023 .08070 .00132 .00198 .00248 .00248 .00247 .00016	C1 .45028 .47318 .49514 .52544 .56812 .59607 .61435 .00430	09269 .08269 .08489 .09913 .09159 .09490 .09589 .09639 .09073	CSL .08092 .00076 .00056 .00031 .00001 00010 00020 00002	CLN .00014 .00053 .00127 .00196 .00249 .00250 .00250
		CA20	747/0	01 S1 AT38	AT39 C	ARRIER DATA		CHGNON	2) (25 NO	75 )
							P.	ARAHETRIC	DATA	
REFERENCE	DATA									
REFERENCE SREF = 5500.0000 SO.F LREF = 227.7000 IN. BREF = 2348.0400 IN. SCALE = .0200	T. XHRP YHRP	<b>a</b> .080	OO IN.XC IO IN.YC IO IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = OX =	8.009 .000 5.000 .000	BETAC = ELV-0B = HACH = PHI =	.000 3.000 .000 .000
SREF = 5500.0000 SQ.F LREF = 227.7200 IN. BREF = 2348.0400 IN.	T. XHRP YHRP	<b>a</b> .080	ID IN.YC	GRADIENT INTI	erval = -1	.00/ 4.00	ELV-1B = ELEVON = BETAO =	.000 5.000 .000	BETAC = ELV-OB = HACH = PHI =	3.000 .600 .000
SREF = 5500.0000 SQ.F LREF = 227.7200 IN. BREF = 2348.0400 IN.	T. XHRP YHRP	= .080 = 190.800	ID IN.YC	GRADIENT INTI	ERVAL = -1 CBL	.89/ 4.80 CYN	ELV-1B = ELEVON = BETAO =	.000 5.000 .000	BETAC = ELV-OB = HACH = PHI =	3.000 .600 .000

.

----

30.000

45.000

60.000

**GRADIENT** 

.57525

.60060

.61751

.00914

.03201

.03063

.02943

.00000

-.03374

-.05473

-.06872

-.08574

.09340

.09305

.09329

.00177

.01679

.01935

.01949

.00046

-.01728

~.01764

-.01782

-.00165

.56907

.59445

.61140

.00809

.08999

.09105

.09160

.00082

.01695

.01748

.01760

.00029

-.01989

-.01950

-.01970

-.00168

CA20 747/0 OI SI AT38 AT39 CARRIER DATA (HGN043) ( 25 NOV 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC ALPHAC = 4.000 BETAC = -5.000 327.7800 IN. .0000 IN.YC YHRP ELV-18 -.000 ELV-09 -3,000 BREF # 2348.0400 IN. ZHRP 190.8000 IN.ZC ELEVON = 5.000 MACH .600 SCALE = .0390 BETAO = -5.000 PHI .000 DX 600. DY .000 RN/L = 3.34 GRADIENT INTERVAL = -1.00/ 4.00 ALPHAO = 12.000 DZ CN CA CLH CY CBL CYN CL CD CSL CLN .000 .46035 .03300 .10044 .09719 .01601 -.01347 .45450 .07958 -.01503 .01455 3.00D .49377 .03211 .08248 .10382 .01781 -.01968 .47801 .08103 -.02139 .01572 7.500 .50905 .03240 .05304 .10094 .01858 ~.02043 .503!3 .00385 -.02221 .01639 15.000 .03286 .01439 .09466 .53874 .01859 -.0:8:3 .53265 .08719 -.01992 .01656 30.000 .57762 .03196 -.02778 .08909 .01914 -.01544 .57144 .09309 .01649 -.01720 45.000 -.05045 .60333 .03021 .09170 .01925 -.01705 .59721 .09889 .01743 -.01891 69.000 .61931 .02888 -.06575 .09230 .01947 -.01753 .61325 .09110 .01750 -.01940 GRADIENT .00781 -.00030 -.00598 .00221 .00060 -.00207 .00780 .00047 .00039 -.00212 CY50 747/0 02 SL AT38 AT39 CARRIER DATA (HGNB44) ( 25 NOV 75 ) REFERENCE DATA PARAMETRIC DATA 5509.0000 SQ.FT. XHRP = 1339.9000 IN.XC ALPHAC = 4.000 -5.000 BETAC -.0000 IN.YC 327.7800 IN. YHPP ELY-IB = .000 ELV-08 = 3.000 BREF = 2348,6408 IN. ZHRP = 190.8000 1N.ZC ELEVON = 5.000 HACH .600 SCALE = .0300 BETAG = -5.000 FHI .000 DX .000 DY .000 RN/L = 3.33 GRADIENT INTERVAL = -1.00/ 4.00 ALPHAO = 12.000 DZ CN CA CLH CY CBL CYN CL œ C5L CLN .000 .45075 .03352 .09501 .01534 -.09972 .09001 .44500 -.01123 .07921 .01428 3.000 .03353 .07778 .47516 .09612 .01673 -.01466 .46928 .0B167 .01515 -.01628 7.500 .50332 .03367 .04479 .09557 .01728 -.01652 .49730 .08450 .01552 -.01819 15.000 .53502 .03338 .00559 .09172 .01757 -.01564 .52888 .08742 .01590 -.01734

PAGE 533

TABULATED SOURCE DATA - CA20

DATE 04 DEC 75 TABULATED SOURCE DATA - CA20

DAIE OF D	EC 13	170007									
			CY50	747/1	01 S1 AT38	PETA	APRIER DATA		(HGN04)	5) (25 NO	v 75 1
	REFERENCE	E DATA						:	PARAMETRIC	DATA	
LREF =	5500.0000 SQ.I 327.7800 IN. 2348.0480 IN.	FT. XHRP YHRP ZHRP	60	DO IN.XC BO IN.YC BO IN.ZC				ALFHAC = ELV-IB = ELEVON = BETAO = OX =	.890 .080 5.090 .090	BETAC = ELV-09 = MACH = PHI = DY =	.000 3.000 .000 .000
			RN/L =	3.23	GRADIENT INT	ERVAL = -1	1.00/ 4.00				
ALPHAO =	8.000 DZ .000 3.000 7.500 16.000 ED.000 45.000 GRADJENT	CN .03348 .04435 .05744 .07830 .10895 .13185 .17337	CA .03406 .03499 .09536 .09714 .09777 .09746 .09367	CLM .22949 .21384 .20062 .16041 .11135 .08766 .04261	CY 00627 00647 00793 00843 00924 01035 01377 00007	CBL .08076 .08089 .08089 .08084 .08084 .08084	CYN08002 .08023 .08121 .08172 .08218 .08273 .08418 .08088	CL .03918 .04101 .05409 .07488 .10642 .12843 .17012 .00361	C9 .69517 .09548 .09730 .09979 .10149 .10191 .09845	CSL .00076 .00059 .00073 .00050 .00041 .00015 00026	CLN 0000 .0002 .0011 .0017 .0027 .0041
			CARD	747/1	01 S! AT38	1 AT39	CARRIER DATA		(HGNC4	6) (25 NC	W 75 )
	RSFERENC	E BATA							PARAHETRIC	BATA	
SREF = LREF = CREF = SCALE =	5500.0000 SQ. 227.7800 IN. 2548.0400 IN. .0500	FT. 10469 YMR9 ZMRP	.00	00 IN.XC 80 IN.YC 80 IN.ZC	GRADIENT IN	IFFRVAI = -	1.00/ 4.00	ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.030 .000 5.000 .000	PETAC = ELV-0B = HACH = PHI = DY =	.000 3.000 .000 .000
			FGAVE IN	2.22	GOODIEH III	LILLING -					
ALPHAO	= 12.000 DZ .080 3.000 7.500 15.000 30.000 45.600 50.000 GRADIENT	CN .32509 .33536 .35315 .33306 .42645 .45561 .47254 .00309	CA .06138 .06176 .06293 .05418 .06294 .06118 .06009 .08013	CLM .14975 .14954 .16821 .08254 .03200 .00300 01601	CY0057500533007230095400920009210090300919	C9L .00050 .00035 .00016 00003 00050 00051 00005	CYN 60036 .00014 .00173 .00149 .00224 .00216 .00207	CL .31805 .32723 .34482 .37447 .41778 .44700 .46405 .00306	CD .09459 .09590 .09886 .10310 .10681 .10733 .10794	CSL .00046 .00036 .00023 .00012 00027 00031 00030	CLN 0891 .0891 .0907 .0914 .0928 .0928 .0928

PASE 534



ORIGINAL PAGE IS .

DATE 04 DEC 75

60.000

GRADIENT

.47139

.00736

.05425

-.00035

-.02134

-.00939

TABULATED SOURCE DATA - CARO

PAGE 535

.01420

.00044

.10191

.00039

.46343

.00736

-.02081

-.00241

			CA20	747/1	01 SI AT38	AT39 C	ARRIER DATA		(HGN04	7) (25 %)	V 75 3
	REFERENC	E DATA						1	PARAHETRIC	DATA	
		1000	- 1770 00	000 IN.XC			•	ALPHAC =	6.000	BETAC =	.000
REF =	5500.0000 SQ.			BO IN.YC				ELV-IB =	.000	ELV-08 =	3.000
REF =	327.7800 IN.	YHRP		00 IN.ZC				ELEVON =	5.000	HACH =	.600
REF =	2348.0400 IN.	ZHRP	= 190.80	100 IN.2C				BETAO =	.000	PHI =	.000
CALE =	.0300							DX. =	.000	DY -	.000
			RN/L +	3.25 (	RADIENT INT	ERVAL = -1	.00/ 4.00				
ALPHAO 1	- 16.009							CL	CD	CSL	CLN
	DZ	CN	CA	CLH	CY	CBL	CYN			.08014	.088
	.000	.63153	.01894	.06048	00973	.00006	.00047	.61912	.12601		.008
	3.000	.64587	.01948	.05852	00959	00013	.00087	.63317	. 12893	.00002	.000
	7.500	.66378	.02161	.04525	00883	00016	.00042	.65047	.13401	00008	
	15.000	.69323	.02116	.01834	01094	00069	.00182	.67960	.13844	08037	.001
	30.000	.74409	.01958	02218	01224	00118	.00276	.73002	. 14531	08069	
	45.000	.78006	.01815	04424	01181	00135	.00262	.76575	.14982	00089	.002
	60.000	.80259	.01809	05684	01144	+.00149	.00229	.78799	.15348	00108	.003
	GRADIENT	.00478	B1000.	00065	.00005	00006	.00013	.00468	.00097	00004	.000
			CA20	747/1	OL SI AT38	1 AT39 C	ARRIER DATA	١	CHGNOY	181 C 25 NO	W 75 )
	REF€RENC	E DATA							PARAMETRIC	DATA	
	ner saer	L DAIL		_				ALPHAC =	4.080	BETAC =	-5.000
REF =	5500.0000 SQ.	FT. XHRP	• • • • • • •	DDD IN.XC					.080	ELV-08 =	3.000
REF *	327.7800 IN.	YHRP		000 IN.YC				ELV-IB =	5.000	MACH =	.600
REF *	2348.0400 IN.	ZHRP	= 190.8	000 IN.ZC				ELEVON =		PHI =	.000
CALE =	.0380				_			BETAD =	-5.000	<del>-</del>	.000
								DX =	.000	DY =	.001
			RN/L =	3.34	GRADIENT IN	TERVAL = -1	.00/ 4.00				
ALPHAO	<b>12.000</b>					<b>50</b> 1	6901	CL	CD	·CSL	CLN
	DZ	CN	CA	CLH	CY	CBL	CYN	.31577	.09214	.01147	01
	.000	.32356	.05922	. 14608	.09660	.01284	01263	.33785	.09331	.01278	02
	3.000	.34564	,05816	. 1 1791	.10511	.01488	01970	.35967	.09331	.01340	02
	7.500	.36661	.05865	.08935	.10136	.01554	02008		.09999		02
	15.000	.39256	.05926	.05158	.09687	.01567	01878	, <u>28444</u>			01
	30.000	.43042	.05792	.01261	.09190	.01528	01681	.42227	.10153		02
	45.000	.45529	.05603	00978	.09485	.01596	01881	.44722	.10210		02
				02170	OCU: OU	UICON	01926	.46343	.10191	.01420	02

.01624

.00069

.09484

.00284

-.01926

-.00236

-.00039

.00018

.00E91

GRADIENT

-.00005



TABULATED SOURCE DATA - CA20

PAGE 537

			CA20	747/1	01 51		CARRIER DATA		11161105	0) (25 N	OV 75 )
	REFERENC	E DATA							PARAHETRIC	DATA	
LREF #	5500.0000 SQ. 327.7800 IN. 348.0400 IN.	YHRP	00	00 IN.XC 00 IN.YC 00 IN.ZC				BETAC = ELV-OB = HACH = PHI = ALPHAC =	.000 3.000 .600 .000	ELV-IB = ELEVON = BETAO = DY = DX =	.000 5.000 .000 .000 10.000
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	6.000 02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .10718 .10807 .11426 .12838 .14655 .12873 02933 .00098	CA .66912 .08943 .08963 .09007 .08890 .08979 .09540	CLM .09987 .10277 .09425 .07188 .04851 .01263 80774 00084	CY 00560 00508 00699 00690 00813 04050 18898 00020	CBL .00089 .00081 .00055 .00066 .00029 01070 05846 00004	CYN .00000 .00010 .00112 .00131 .00194 .01452 .06963 .00016	CL .10401 .10488 .11106 .12515 .14336 .12551 03264 .00097	CD .09281 .09315 .09356 .09450 .09396 .09423 .09423	CSL .00088 .00081 .00059 .00070 .00035 01018 05599 00004	CLN 80803 .00007 .00110 .00129 .00193 .01483 .07163
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000				•		<b>0</b> 1/11	~	CD	CSL	CLN
	DZ	CN	CA	CLM .25625	CY 00432	CBL .00117	CYN 00078	CL .03494	.08302	.00114	00082
	.000	.03782 .04066	.08175 .08335	.25383	00469	.00094	00043	.03773	.08472	.00093	00045
	3.080 7.500	.04950	.08518	.23652	00582	.00072	.00037	.04650	.09685	.00073	.00034
	15.000	.07566	.08745	.17642	00697	.00070	.00131	.07257	.09084	.00074	.00128
	30.000	.11054	.08339	.11184	00789	.00032	.00208	.10739	.09220	.00039	.00207
	45.000	.12928	.08819	.08897	01065	00053	.00305	. 12612	.09265	00842	.00307
	60.000	.13952	.08801	.05320	01834	00318	.00500	.13647	.09283	00296	.00611
	GRADIENT	.00159	.00045	00273	00020	00006	.00016	.00157	.00051	00005	.00016
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.080						•				
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	03020	.07759	.37771	00205	.00145	00151	03289	.07649	.00139	00156
	3.000	02213	.07893	. 35843		.00120	00081	02487	.07811	.00117	00085
	7.580	01570	.08264	.34331	00336	.00112	00076	01856	.08145	.00110	00080
	15.000	.01403	.09304	.28160		.00986	.00089	\$1110.	.08348	.00000 03000.	.00126
	30.000	.05721	.08787	.17802		.00055	.00128	.05410 .09714	.09112	.00050	48100.
	45.000	.10028	.08768	.12699		.00053	.00187	.12328	.09203	.00200	.00045
	60.000	.12642	.08767	.09675		.00199	.00052	.00197	.08203	00004	.08889
	GRADIENT	.09189	.00060	00449	00016	00084	.00003	.60187	.00007	00004	. 00003

PAGE 538

			CA20	747/I	01 51	c	ARRIER DATA		(HGN051	) (25 NG	v <b>7</b> 5 )
		n						f	PARAMETRIC	DATA	
	REFERENCE	DATA									
SREF = 55	00.0000 SQ.F	T. XHRP	- 1339.900	O IN.XC				BETAC =		ELV-18 =	.000 5.800
	27.7890 IN.			9 IN.YC				ELV-08 =		BETAO =	.000
	.NI 0040.84	ZMRP	<b>- 190.8</b> 00	12.ZC				PHI =		DY =	.080
SCALE -	.0300							ALPHAC =		DX =	20.000
								7.5.		_	
			RN/L =	3.24 6	RADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	6.000					ce	CYN	CL	CD	CSL	CLN
	OZ	CH	CA	CLH	CY	CBL .00045	.00045	.11363	.69112	.88947	.08043
	.000	.11674	.08710	.08235	00594 00451	.00075	.81000.	.11865	.09202	.00976	.00015
	3.000	. 12119	.08764	.07030	00499 00499	.00073	.08042	.12398	.09265	.00073	.00040
	7.500	. 12714	.08827	.06216	08645 08645	.08056	.00101	.13347	.09362	.08860	.00099
	15.000	.13666	.08890	.05010	00795	00007	.00173	.14579	.09357	00001	.00173
	50.009	. 14896	.08842	.040 <b>53</b> 05308	60400	.00215	.00119	.18213	.10231	.00219	.00112
	45.000	. 18559	.09589		.01533	.01248	00248	.28243	.13622	.01239	00291
	60.080	.29701	.12523	38523	.08011	.00003	.00000	.00138	.00020	.08903	.00000
	GRADIENT	.00138	.00015	00505	.50011	100000					
			EMIT =	3.25	GRADIENT INTO	ERVAL =	.08/ 12.00				
ALPHAD =	10.000								CD	CSL.	CLN
1.2	DZ	CN	CA	CLM	CY	CBL	CYN	CL .05600	.03486	.00094	00114
	.009	.65893	.08285	.23484	60019	.00098	60111	.05937	.08511	.00089	00040
	3.000	.63130	.08303	.23257	80352	.00891	00037	.05537	.08567	.08077	.00027
	7.580	.07026	.06427	.21122	00545	.00076	.08030	.08757	.08970	.00000	.00075
	15.080	.02064	.02559	. 15944	00555	.08057	.08077	.11601	.09159	.80033	.00284
	30.000	.11914	.09748	.16515	00780	.00026	.00205	.13246	.09262	.00010	.00230
	45.009	. 13561	.08794	.07589	00842	.00002	.00230	.13246	.05178	00039	.00305
	60.880	.15166	.68957	.03778	00997	00048	.00303	.00154	.80025	00002	.08019
	GRADIENT	.00155	.00020	00327	00068	00003	.08018	.00154	.00023	.00002	
			RN/L -	3.28	GRADIENT INT	TERVAL =	.00.12.00				
ALPHAO =	14.600						A121	~	CD	C5L	CLN
,,_,,,,,,	DZ	C34	CA	CLM	CY	C9L	CYN	CL .00763	.09372	00091	.00269
	.600	.01079	.89840	.26912	01279	00100	.00266	.00481	.08889	.00032	.00069
	3.000	.00770	.08267	.32050	80687	.00030	.00070 00055	.01046	.07984	.00105	00059
	7.500	.6132 <del>4</del>	.07942	.33235	00270	.00107	eeusu 05010.	.02692	.08437	.08077	.00017
	15.080	.03984	.08303	.26223	00433	.00076	.00142	.03833	.08916	.00847	.03140
	30.000	.08225	.09634	, 17129	00534	94800,	.00192	.10422	.09052	.00033	.00191
	45.000	. 10731	.08683	. 12574	00723	.00027	.00183	.12041	.09043	.68027	.00182
	69.080	. 12549	.02517	.10733	00704	.08021 .00027	08842	.00045	00139	.00025	00043
	GRADIENT	.00048	00140	.00797	.00131	.00027	-,0001	,,,,,			

## TABULATED SOURCE DATA - CA20

A.CO. CO D.T.

(MGN852) ( 25 NOV 75

PAGE 539

	CY50	747/1	01 51	C	ARRIER DATA		(HGN052	2) (25 110)	V 75 )
REFERÊNCE DATA						1	PARAHETRIC	DATA	
13 50.FT. XHRP 13 IN. YHRP 10 IN. ZHRP	.00	00 IN.YC				ELV-IB = ELEVON = BETAO = PHI = DX =	.000 5.000 .000 .000	ELV-OB =  MACH =  BETAC =  DY =  ALPHAC =	3.000 .600 .000 .000 4.000
	RN/L =	3.22	GRADIENT INT	ERVAL =	.00/ 12.00				
CH 100 .48392	CA .05582	CLH 06327	CY 00897	CBL .00023	CYH .00090	CL .47543 47025	CD .10610	CSL .00033	CLN .00087 .00130
500 .49457 500 .50390	.05489 .05389 .05265 .04951	06006 06157 06591 06613	01022 01029 01032	00007 00033 00034	.00180 24500. 88500.	.48623 .49564 .51420	.10529 .10503 .10382	.00012 00007 00006	.00180 .00247 .00270
.54133 .56409	.04712 .04923 00026	07162 14890 .00018	01207 01395 00010	00054 00405 00004	.00385 .00905 .00012	.53344 .55585 .00145	.10345 .10793 00010	00309 00003	.00389 .00943 .1000
	RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.00				
		~ "	cv	CDI	CYN	C1.	CD	CSI.	CLTN
000 .40208 000 .41334 500 .42876	.05442 .05415 .05378	.05779 .05245 .03213	00647 00711 00801	.00054 .00036 !1000.	08041 .00817 .00897	.39419 .40542 .42079	.09615 .09706 .09830	.00850 .00937 .00921 .00010	00047 .00013 .00095 .00153
000 .48226 000 .50259 000 .52342	.05089 .04924 .04787	02887 04679 07102	00994 01026 01071 00020	00041 00059 00151 00005	.00218 .00251 .00322 .00018	.47430 .49469 .51555 .00354	.10102 .10150 .10232 .00029	00018 00041 00117 00004	.00221 .00257 .00336 .00019
Citt 10000	RN/L =	3.24	GRADIENT IN	TERVAL =	.00/ 12.00				
n.	,								
CN 060 .32250 000 .33241 500 .35969 000 .38719 000 .43746 000 .46953 000 .48968	CA .05185 .05183 .05280 .05409 .05271 .05062 .04883	.16117 .13760 .09195 .01974 01007	00774 00835 00852 01021 01015 01017	CBL .00078 .00037 .00012 .00001 00053 00046 00009	CYN 00078 .00019 .00088 .00117 .00232 .00235 .00216	CL .31531 .32517 .34316 .37942 .42955 .46058 .48190 .00374	CD .08527 .08529 .08916 .09427 .09915 .09932 .08974	CSL .00069 .00038 .00028 .00013 00028 00021 .00014	CLN 00086 .00015 .00096 .00117 .00235 .00239 .00216
	0 SO.FT. XHRP 00 IN. YHRP 00 IN. ZHRP 00 IN. ZHRP 00 IN. ZHRP 00 CN 000 .48392 000 .52223 000 .54133 000 .56409 ENT .G0143  0 CN 000 .40208 000 .41334 500 .45139 000 .45139 000 .50259 000 .50259 000 .50259 000 .50259 000 .32250 000 .32250 000 .32250 000 .32250 000 .32550 000 .32550 000 .46953	CN CA	TERENCE DATA  10 SO.FT. XHPP = 1339.9000 IN.XC  10 IN. YHPP = .0000 IN.YC  10 IN. ZHPP = 190.8000 IN.ZC  10 IN. ZHPP = 190.8000 IN.ZC  10 CN	THE COLOR OF THE C	THE STATE DATA  13 SO.FT. XHPP = 1339.9000 IN.XC 10 IN. YHPP = .0000 IN.YC 10 IN. ZHPP = 190.8000 IN.ZC  10 IN. ZHPP = 190.8000 IN.ZC  10 IN. ZHPP = 190.8000 IN.ZC  10 CN	CN CA CLH CY CBL CYN  100 1.50283 .04951 .05513 .01092 .00054 .00085  ENVL = 3.24 GRADIENT INTERVAL = .007 12.00  CN CA CLH CY CBL CYN  100 .48392 .05582 .06327 .00937 .00933 .0099  100 .48366 .05489 .06557 .00937 .00033 .00245  100 .50390 .05265 .06591 .01029 .00033 .00245  100 .50390 .05265 .06591 .01029 .00033 .00245  100 .50390 .05265 .06591 .01029 .00033 .00245  100 .50390 .05265 .06591 .01039 .00034 .00365  100 .50390 .09265 .06591 .01039 .00034 .00365  100 .50390 .0926 .09613 .01092 .00034 .00365  100 .50390 .0926 .09613 .01092 .00034 .00365  100 .50390 .0926 .0918 .01092 .00004 .00012  RN/L = 3.24 GRADIENT INTERVAL = .007 12.00  CN CA CLH CY CBL CYN  100 .40208 .05442 .05779 .00647 .00054 .00012  RN/L = 3.24 GRADIENT INTERVAL = .00011 .00017  100 .40208 .05378 .03213 .00801 .0011 .00097  100 .45139 .05915 .05245 .00081 .0011 .00097  100 .45139 .05916 .05089 .03213 .00867 .00066 .00153  100 .45266 .05089 .03213 .00867 .00066 .00153  100 .45276 .05378 .03213 .00867 .00066 .00153  100 .45285 .05089 .02887 .00994 .00041 .00219  100 .50259 .04924 .04679 .01026 .00065 .00255  100 .52342 .04787 .07102 .01071 .00151 .00225  100 .52342 .04787 .07102 .01071 .00151 .00225  ENT .00355 .00089 .00474 .00020 .00065 .00018  100 .32250 .05165 .17223 .00635 .00078 .00078  100 .32251 .05183 .16117 .00774 .00037 .00018  100 .32250 .05183 .16117 .00774 .00037 .00018  100 .32260 .05183 .16117 .00774 .00037 .00018  100 .32260 .05183 .16117 .00774 .00037 .00018  100 .32260 .05183 .16117 .00055 .00078 .00078 .00018  100 .43746 .05271 .01974 .01021 .00053 .00235 .00019 .00019  100 .43746 .05271 .01974 .01021 .00053 .00235 .00019 .00019 .0000 .0000 .00000 .00000 .00000 .00000 .000000	TERENCE DATA  10 SO.FT. XMPP = 1339.9000 IN.XC  10 IN. YMPP = .0000 IN.YC  10 IN. YMPP = .0000 IN.YC  10 IN. ZMPP = 190.8000 IN.ZC  10 IN. ZMPP = .0000 IN.ZC  10 IN. ZMPP = .0055820652700697000230099047543  10 IN. ZMPP = .00506009220000800131479253  10 IN. ZMPP = .0050600922000080024549554  10 IN. ZMPP = .0050600007000400040004  10 IN. ZMPP = .00006000400040001200145  10 IN. ZMPP = .000060004000400040001200145  10 IN. ZMPP = .0000600040004000400040004  10 IN. ZMPP = .000060004	ERENCE DATA  PARAMETRIC  10 50.FT. XP8P = 1339.9000 IN.XC  10 IN. YP8P = .0000 IN.YC  10 IN. YP8P = .0000 IN.YC  10 IN. ZP8P = 190.8000 IN.ZC  RN/L = 3.22 GRADIENT INTERVAL = .00/ 12.00  CN	TERENCE DATA  10 SOLFT. XMPP = 1339.9000 IN.XC  10 IN. YMPP = .0000 IN.YC  10 IN. ZMPP = 190.8000 IN.XC  10 IN. ZMPP = 100.8000 IN.XC  10 IN. ZMPP = 100.800

			CV50	747/1	01 51	ı	CARRIER DATA	•	CHGN05	3) (25 NO	0V 75 J
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF =	500.0000 SQ.F 327.7800 IN. 348.0409 IN. .0300	YMRP	80	00 IN.XC 80 IN.YC 80 IN.ZC				ELV-18 = ELEVON = ESTAO = PHI = OX =	.000 5.000 .000 .000	ELV-0B = HACH = BETAC = DY = ALPHAC =	3.000 .600 .000 .000 4.000
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	6.089										
	DZ	CH	CA	CLH	CY	CBL.	CYN	CL.	CD	CSL	CLN
	.000	.49261	.05387	07918	06794	.00003	.00061	.48528	.10517	.00010	.00860
	3.000	.9C559	.65342	07381	08960	00003	.00118	.48729	.10493	.00010	.00118
	7.508	.50023	.65275	0734B	08931	08017	-00171	.49203	. 18476	.00001	.00172
	15.000	.50870	.65157	07629	08958	00035	.00195	.50052	.16446	08014	.00198
	30.000	.52555	.64934	08213	08991	00056	.00225	.51752	.18480	08842	.00231
	45.000	.54754	.05059	17211	00842	08499	.00444	.53925	.10755	06450	.00454
	60.000	58169	.05924	44183	00162	01729	.01604	.57231	.11972	01514	.01179
	GRADIENT	.09090	00015	.00071	08918	00003	.60014	.00091	60005	00001	.00015
			FBN/L =	3.23	GRADIENT INT	ERVAL -	.00/ 12.00				
ALPHAO •	10.000	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	02	.43 <b>272</b>	.05144	.04351	00900	.00025	.00037	.42497	.09639	.00029	.00934
	.089	.7548B	.05191	.04589	00997	.00001	.00112	.42708	.69703	.00813	.00111
	3.000	.44659	.05168	.02331	01092	00029	.00201	.43872	.09827	00008	.00203
	7.500		.05166	00358	01127	08061	.08250	.45655	.09976	00035	.00255
	15.600	.46448	.04968	03334	01193	00071	.00284	.48289	.10071	68841	.00290
	30.000	.49077			01148	00105	.00201	.50051	.10139	00073	.00305
	45.008	.50836	.0:1850	-,05264		00103	.00229	.51619	.10245	00156	.00347
	69.009	.52407	.04793	08084	01133	00007	.00022	.00189	.00025	00005	.00022
	GRADIENT	.60191	.80885	00288	00025	00007	.00022	.00103	.00025		
			RN/L =	3.23	GRADIENT INT	ERVAL =	.08/ 12.00				
ALPHAD -	14.000				***	604		CL.	CO	CSL	CLN
	OZ	CN	CA	CLH	CY	CBL	CYN	.35695	.88405	.00863	08863
	.600	.36573	.04627	.17903	60746	.00069	• .u8056			.08024	00005
	3.000	.38539	.64739	. 17755	08939	.00017	.08067	.35943	.08542		
	7.580	.38031	.64940	. 14859	01036	00015	.00160	.37306	.02220	.00002	.00160
	15.00D	.46997	.65113	.08537	01131	08841	.00244	.40238	.09370	00016	.00247
	39.000	.45130	.05048	.01979	01224	00078	.00302	.44355	.09738	00046	.00309
	45.000	.47779	.04984	00899	01146	00050	.00277	.47084	.09972	60031	.00282
	60.000	.49:197	.04784	02019	01137	60022	.00254	.48726	.09931	.00004	.00254
	GRADIENT	.00227	.00642	00426	08037	00011	.08028	.00222	.00065	00008	.00029

.

### TABULATED STURCE DATA - CA20

CARRIER DATA 747/1 01 S1 CAEO

1 25 NOV 75 1 (HGN054)

PAGE 541

-.00094

-.00001

.09974

.00055

.00281

.00014

#### PARAMETRIC DATA REFERENCE DATA ELV-IB = .000 ELV-09 = 3.000 XHRP 1339.9000 IN.XC 5500.0000 SQ.FT. .600 5,000 MACH ELEVON . .0008 IN.YC YHYYP 327.7800 IN. LREF = .000 BETAO = .000 PHI 190.8080 IN.ZC 2348.0400 IN. ZHRP BREF # BETAC -.000 .000 DY .0300 SCALE = 4.000 ALPHAC = DX 20.000 .00/ 12.00 3.25 GRADIENT INTERVAL . RN/L = 6.000 ALPHAO = CSL CLN CL CD CY CBL CYN CLM CA ΩZ CN .00010 .00840 14000. .49391 .10390 .00006 -.00779 -.10473.000 .50206 .05161 .00004 .00082 .49554 .10385 \$8000. -.00004 -.09995 -.00825 .50368 .05!48 3,000 .10395 -.00004 .00125 .49974 -.00017 +5100. -.00868 .05125 -.09593 .50688 7.500 .00161 .10393 -.00010 .00159 .50479 -.00027 -.09350 -.00894 .51289 .05059 15.000 .00212 .10315 -.08029 .00209 .51687 -.00996 -.00051 .04856 - 08537 .52482 30.000 -.00109 .00363 .52754 .10344 -.00146 .00350 -.01107 -.09098 .53548 .04773 45.000 .00858 .10765 -.00178 .53260 -.00267 .00835 -.12627 -.01217 .05140 .54894 60.000 .00002 -.00002 .00011 -.00003 .00011 .00065 -.00012 -.00005 .00115 GRADIENT .00065 GRADIENT INTERVAL . .00/ 12.00 3.27 RN/L = ALPHAO - 10.000 CLN ÇSL CO CBL CYN CL CY CA CLH CN ΟZ .09563 .00012 .00121 .00121 .44276 -.00001 ~.00297 .04883 .04374 .000 .45033 -.00003 .00164 .09654 .44800 -.01058 -.00020 .00163 .03218 .45564 .04918 3.000 .00230 .45571 .09796 -.00035 .00225 -.00050 .04969 .00832 -.01151 7.500 .46445 .00285 -.00040 .47022 .09953 .00280 -.01197 -.01237 -.00069 .47804 .04984 15.000 .10040 -.00054 .00299 -.00095 10291 .49109 -.01196 .04852 -.03787 30.000 .49889 -.00042 .00290 .10074 .00284 .50530 -.04691 -.01145 -.00072 .51306 .04737 45.000 .00032 .00269 .10119 .00003 .00271 .51798 -.01026 -.05029 .52570 .04649 60.000 .00031 -.00007 .00015 .08014 .00187 -.00008 -.00477 -.00021 .00011 GRADIENT .00189 GRADIENT INTERVAL -.00/ 12.00 3.27 RN/L = 14.000 MINHAU = CLN CYN CL. CD CSL CLH CY CBL. DZ CN CA .00074 .08554 .00003 .37735 -.00005 .00074 .04562 . 19732 -.03959 .38423 .669 .00026 .00101 .08667 .00015 .00103 .39543 .18328 -.00935 .04591 .39230 3.009 .00175 .40083 .08957 -.00002 .00174 .14068 -.01649 -.00021 .04718 .40800 7.500 .09376 -.00029 .00277 .42410 .00273 .08241 -.01186 -.00058 .04891 .43158 15.000 -.00085 S1E00. .09715 -.01202 -.00097 .00304 .45705 .04884 .02028 30.000 .46470 .09865 -.00073 .00319 .00310 .47754 -.00105 -.08899 -.01190 .48524 .04819 45.000

-.03128

-.00770

.04753

.00021

.50201

.00319

60.000

GRADIENT

-.01126

-.00013

-.00123

-.00003

.00269

.00013

.49429

.00315

ORIGINAL PAGE IS OF POOR QUALITY

0400 70741 01 61

DATE 44 DEC 75

CADDIED DATA

.00276

.000020

.64971

.00339

.15536

.00049

-.68080

-.00002

.00291

.00021

(HGN855) ( 25 NOV 75 )

			CY50	747/1	01 SI	I	CARRIER DATA		(HGN05	5) (25 NO	775 1
	REFERENC	E DATA							PARAMETRIC	DATA	
LREF .	500.0000 5 <b>0.</b> 52 <b>7.7</b> 800 IN. 348.0400 IN. .0300	VHRP		00 IN.XC 00 IN.YC 00 IN.ZC				ELV-IB = ELEVON = EETAO = PHI = DX =	.030 5.080 .000 .000	ELV-08 = HACH = BETAC = OY = ALPHAC =	3.000 .000 .000 .000 9.000
			RN/L =	3.22	GRADIENT INT	ERVAL =	.00.5' \00.				
ALPHAO =	6.000 DZ	Cil	CA	CLH	CY	CBL	CYN	CL .87154	CD . 16435	CSL 06893	CLN .00148
	.080	.89684	.01051	15639 14517	01124 01656	00117 00121	.00129 \$3100.	.85892	.16278	00091	.00181
	3.080	.68202 .881 <b>57</b>	.009 <b>77</b> .00979	13430	01035	00137	.00102	.86648	. 16273	00100	-00219
	7.509	.68157	.08835	12130	01188	00154	.00251	.66946	.16179	0816B	.00274
	15.000 20.000	.69908	.08748	10479	01106	00160	.00258	.87427	.16176	00113	.00281
	50.000 45.000	.90893	.00722	03355	01093	08091	.00344	.89189	.16460	00030	.00355
	60.000	.92975	.01245	.26434	01273	.00697	.03704	.91347	.17371	.08899	.00572
	GRADIENT	00066	08089	.00290	.00002	00003	.00009	00063	00020	00001	.00809
			™/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
alphao =	10.000		•	~ 4	CY	CBL	CYN	CL.	CD	CSL	CLN
	ÐZ	CN	CA DOCUM	CLM 10419	00920	00044	.00036	.80638	.15226	00037	£#888.
	.000	.02857	.08992 .08940	09927	01005	00068	.00117	.80982	.15233	00047	.00127
	3.080	.03397	.00557	03770	01157	00091	.00210	.81690	.15274	08854	.00223
	7.500	.83101	.00257	03770	01194	00099	.00262	.82705	. 15335	00052	.00275
	15.090	.C4112 .86049	.00540	09174	01200	-,00102	.00289	.84630	. 15573	00051	.00301
	39.000	.67408	.00593	08526	01155	00058	.00277	.85976	. 15772	00019	.00264
	45.009 ED.008	.83 <del>54</del> 1	.00603	06945	01087	.08003	.00273	.87691	.16026	.00051	.00269
	GRADIENT	.00141	08018	.00082	00032	00008	.00023	.00142	.00007	00002	.00024
	ENADIEM	,00171	EN/L =	3.27	GRADIENT INT		.00/ 12.00				
ALPHAO =				<b></b>	CY	CBL	CYN	CL	CD	CSL	CLN
	ĐZ	CN	CA	CLH	-	.00009	.00023	.72490	.13766	.00013	.00021
	.000	.73779	.00969	00020		00003 81000	.00896	.73271	.13921	.00001	.00098
	3.000	.74575	.00996	00108		00032	.00178	.74999	. 14136	08001	.00181
	7.500	.78313	.00898	02402 09463		00032 000 <b>77</b>	.00283	<b>.773</b> 39	.19410	00026	.00292
	15.000	.78566	.00761			00105	.00330	.60818	.14866		.00343
	30.000	.62172	.00606	05599		00085	.00500	.83172	.15225		.00310
	45.000	.64552	.00551	07293	01669	00000	.00000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

-.08428

-.00333

.00545

-.00010

.65378

.00342

45.000

60.088

GRADIENT

-.01219

-.00020

-.00110

-.03005

60.008

GRADIENT

.06373

.00217

#### TABULATED SOURCE DATA - CA20

PAGE 543 DATE 04 DEC 75 CARRIER DATA (HGN056) ( 25 NOV 75 ) CVSO 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 3.000 ELV-IB = .000 ELY-08 \* 1339.9000 IN.XC - 5500.0000 SQ.FT. XHRP = SREF .600 ELEVON \* 5.000 HACH .0000 IN.YC LREF 327.7800 IN. YHRP .000 BETAO \* .000 BETAC = ZHRP 190,8000 IN.ZC BREF = 2348.0400 IN. .000 ĐY -000 PHI SCALE = .0300 8.000 DΧ 10.000 ALPHAC \* .00/ 12.00 RN/L = 3.30 GRADIENT INTERVAL = ALPHAO = 6.000 CSL CLN CBL CYN CŁ CD CY DZ CH CA CLH .00092 .00078 .16212 -.00072 -.00087 .06880 .88383 .00878 -.17865 -.00934 .000 .00149 -.00110 .00132 .86562 .16125 -.00085 -.16760 -.00960 .00831 3.000 .89145 .00221 .16085 -.00104 -.00141 .00199 .86661 -. 15224 -.01058 7.500 .88138 .00792 .00263 .86864 .16083 -.00104 -.13545 -.01118 -.00148 .00241 .88337 .00754 15.000 -.00163 .16059 -.00115 .00283 .00265 .87326 -.11266 -.01150 .00651 30.000 .88788 .16026 15000. .00354 -.01301 -.00042 .00362 .86835 45.000 .88300 .00703 -.05882 .00552 .60547 .00431 .00733 .83778 .16094 .08778 -.01753 .85300 .01302 69.000 -.00004 .00017 .00016 -.00028 -.08016 -.08017 -.00007 -.08030 -.00011 .00351 GRADIENT GRADIENT INTERVAL \* .00/ 12.00 3.24 RN/L = ALPHAO = 10.000 CLN CBL CYN CL CĐ CSL CA CLH CY CN DZ .00022 .00087 .82498 .15451 .00007 .00090 -.11283 -.01017 .000 .83927 .0089t .00010 .00174 .82632 .15426 -.10607 -.01114 -.00021 .00173 3.000 .84056 .00843 .83939 .15421 -.00006 .00258 -.01214 -.00858 .00253 .00767 -.10024 .84455 7.500 -.00014 .00283 .83814 .15511 -.01228 -.00063 .00276 15.000 .05234 .00721 -.09812 -.00024 .00321 -.01293 -.00079 .00312 .85239 .15663 .00624 -.09431 30.000 .86563 .15840 -.00014 .0030B .68303 -.01221 -.00057 .00301 .00613 -.08513 45.000 .87743 .00284 .15963 -.00012 .00278 .85964 .08519 -.06986 -.01116 -.00061 .88415 60.000 .00021 .00074 -.00004 -.00004 .00022 -.00026 -.00008 -.08017 .00165 GRADIENT .00072 GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.23 ALPHAO = 14.080 CLN CSL CY CBL CYN CL CD CLH CA DZ ÇN .00D34 .00092 .00018 .00097 .76280 .14270 .00584 -.01136 .00809 .000 .77599 .00167 .76922 . 14365 .00026 -.01201 -.00004 .00169 .78150 .00906 -.80150 3.000 .14491 .00010 .00240 -.00031 .0023R .77891 .09747 -.01931 -.01266 .79214 7.500 .14691 -.00014 .00322 .79496 -.01354 -.08069 .00315 .00654 -.03525 15.000 .80839 -.00033 .00359 .15027 .00348 .82014 .00557 -.05996 -.01387 -.00095 39,000 .83377 .00333 .83851 .15309 -.00025 .00342 -.01293 -.00084 .00516 -.05623 45.000 .85235

-.07151

-.00326

.00520

-.00009

-.01238

-.00017

-.00083

-.00007

.84970

.00215

.00308

.00019

.15511

.00029

-.00028

-.00003

.00318

.00019

**GRADIENT** 

.00149

-.00001

CA20 747/1 01 S1

-- w

(MGNB57)

CARRIER DATA

-.00299

PAGE 545

J 0. 0		Theor		Unit - C	neu					PA	DE 343
			CY50	747/1	01 SI		CARRIER DATA		(MGND5	38) (25 N	OV 75 )
	REFEREN	CE DATA							PARAHETRIC	DATA	
LREF =	5500.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300	YHRP	0	000 IN.XC 000 IN.XC				ELV-18 = ELEVON = BETAQ = PHI = DX =	.080 5.000 .000 .000	ELV-08 = HACH = BETAC = DY = ALPHAC =	3.000 .600 .009 10.000 4.009
			RN/L =	3.34	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	OZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.42296	.05587	.01873	01629		00467	.41471	.09976	.03788	00553
	3.000	.43162	.05550	.01525		.00659	00215	42345	.18031	.00533	00283
	7.500	.44615	.05480	00094	02001	.00480	.02000	.43798	.10113	.00487	.00039
	15.000	.46364	.05361	01702	02040	.00321	.00302	.45550	.10178	.00350	.00265
	30.000	.49160	.05123	04291	02175	.80105	.00606	.48355	.10234	.00168	.00592
	45.000	.51024	.04955	05477	01854	00002	.00564	.50226	.10262	.00057	.00561
	60.000	.52776	.04799	06695	01505	00116	.00505	.51985	.10290	00062	.00514
	GRADIENT	.00311	00014	00270	00059	00847	.00074	.00311	.00018	00039	.00078
			RN/L =	3.24	GRADIENT II	NTERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CO	CSL	CLN
	.000	.33419	.05363	.15106	02547	.01491	00991	.32675	.08826	.01390	01032
	3.000	.34647	. 85444	.13125	02243	.01298	00654	.33988	.09035	.01222	00786
	7.500	.36691	.05498	.10245	02486	.00959	00119	.35916	.09304	.08941	00219
	15.000	.39941	.05452	.85735	02880	.00557	.00454	.39152	.09597	.00601	.00394
	30.000	.44646	.05272	.00257	03009	.00156	.00910	.43850	.09910	.00250	.00839
	45.000	.47477	.05103	02425	02497	.00021	.00818	.46684	.10039	.00107	.00911
	60.000	.49471	.04979	03997	01935	00028	.00613	.48679	.10123	.00037	<b>-00612</b>
	GRADIENT	.00438	.00018	08547	.00003	08071	.00103	.00434	.00063	00060	.60110

			CASE	747/1	01 SI		CARRIER DATA	١.	(MGN8	59) (25 K	10V 75 )
	refer	BENCE DATA							PARAMETRIC	DATA	
SREF = LREF = BREF = SCALE =	5580.0000 327.7800 2348.0400 .0300	IN. YHRE		00D IN.XC 80D IN.YC 80D IN.ZC				ELV-IB = ELEVON = ESTAD = PHI = EX =	.600 5.660 .008 .600	ELV-08 WHACH WETAC WORLD	3.000 .600 .000 10.000 4.000
			RN/L =	3.32	<b>ORADIENT</b>	INTERVAL =	.00/ 12.00		-		
ALPHAO =	10.000 DZ .600 3.000 7.500 15.000 39.000 49.000 60.000 GRADIENT	CN .44265 .44728 .46075 .47466 .49767 .51346 .52693 .00245	CA .05288 .05374 .05226 .05185 .04995 .64992 .04750 08009	CLM .01308 .01068 00517 02165 04149 05763 07528 00252	CY 0123 0125 0162 0175 0182 0185 0085	55 .00561 50 .00413 54 .00280 55 .00056 7000037 7000130	CYN005080028400028 .00228 .00578 .00549 .00497 .00067	CL .43459 .43989 .45278 .46664 .48992 .50556 .51908	CD .09995 .09957 .10014 .10118 .10173 .10203 .10232 .00017	CSL .00639 .00528 .00410 .00303 .00116 .00021 00077 00030	CLN 08578 00391 00095 .00197 .00659 .00559 .00509
ALPHAO o	14.000 02 .600 3.600 7.500 15.000 30.000 45.000 GD.000 GRADIENT	CN .37849 .39377 .35310 .42232 .46007 .48360 .50074	CA .09894 .05001 .05139 .05181 .05038 .04942 .04855	CLH .12234 .12267 .09738 .05442 .00058 02391 04184 00474	CY 0130 0140 0223 0270 0289 02426 01846 00125	5 .01657 2 .08745 8 .08424 5 .08078 508027 50866	CYN 01051 00786 00024 .00509 .00897 .00800 .00575	CL .37128 .37643 .39682 .41460 .45228 .47579 .49292 .00262	CD .08913 .08985 .09273 .09569 .09220 .09370 .10062	CSL .01167 .00977 .00779 .00779 .00179 .00057 00005	CLN 01179 60812 00102 .00489 .00759 .00578

TABULATED SOURCE DATA - CA20

747/1 01 51

PAGE 547

CARRIER DATA

			CAZO	747/1	01 51		CARRIER DATA	١.	(HGNO)	50) (25 N	97 75 J
	REFER	ENCE DATA							PARAHETRI	C DATA	
SREF = LREF = BREF = SCALE =	5500.0000 327.7800 2348.0400 .0300	IN. YHRP	<b>-</b> .0	3.23		interval =	.00/ 12.00	ELV-IB = ELEVON = BETAO = PHI = OX =	.000 5.000 .000 .000	ELV-08 = HACH = BETAC = DY = ALPHAC =	3.000 .600 .000 10.000 8.000
ALPHAO =											
	02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CH .82630 .83018 .83631 .84944 .86491 .87788 .89073	CA .00B71 .00777 .00693 .00530 .00544 .00424 .00424 .00449	CLH 10104 10210 10575 10434 09500 09501 00064	CY02280224021302230236011150002	5 .00175 3 .00126 9 .00017 900146 300121 300090	CYN00159 .00016 .00146 .00422 .00693 .00475 .00246 .00040	CL .81224 .81522 .82240 .83562 .85100 .85381 .87542	CD .15206 .15181 .15205 .15272 .15456 .15552 .15910 .00000	CSL .00195 .00175 .00149 .00093 00025 00037 00046 00006	CLN 00196 00015 .00122 .001413 .00293 .00489 .00258
ALPHAO =	14.000 DZ .000 3.600 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .74859 .75702 .77425 .78722 .83041 .85094 .86506	CA .08903 .00860 .00709 .00594 .00366 .00360 .00415	CLH 01679 02705 04291 06034 08027 08337 08481 00349	CY 02654 03018 03311 0293 02369 01773 00086	.00678 .00469 .00215 02014 00992 00093	CYN005180807808078094160977709807007310048600136	CL .73565 .74402 .76126 .77405 .81716 .03738 .85120	CD .13989 .13992 .14143 .14353 .14780 .15131 .1543G	CSL .00811 .00554 .00534 .00347 .00144 .00035 .00002	CLN 00771 00193 .00328 .00728 .00895 .00736 .00493

			CAZO	747/1	01 S1		CARRIER DATA	<b>.</b>	CHGNOS	SD (25 N	OV 75 1
	REFERÈNCE	DATA						!	PARAMETRIC	DATA	
LREF =	327.7800 IN. 327.7800 IN. 348.0400 IN.	T. XHRP YHRP ZHRP	00	08 IN.XC 80 IN.YC 80 IN.ZC				ELV-IB = ELEVON = ESTAO = PHI = OX =	.000 5.000 .000 .000	ELV-GB = MACH = ETAC = DY = ALPHAC =	3.600 .600 .000 10.000 8.000
			RN/L =	3.28	GRADIENT IN	TERVAL =	.00/ 12.00				
ALFHAO =	10.000										
	D2	CN	CA	CLH	CY	CBL.	CYN	CL	CD	CEL	CLN
	.000	.84496	.00697	11005	01755	.00231	00234	.83091	. 15359	.00186	00271
	3.000	.84744	.00658	10833	01781	.00196	00089	.83342	. 15363	.00177	00122
	7.500	.65253	.00599	10757	01797	.00141	.09076	.83854	. 15394	.00153	.08050
	15.000	.85398	.00493	10957	01872	.00045	.00310	-84605	. 15419	.00093	.00228
	30.000	.87392	.00415	10460	02151	00085	.00591	.85992	. 15584	.00019	.00597
	45.000	.68468	.00513	09379	01638	00085	.00416	.87052	. 15871	00012	.00424
	60.000	.69999	.00514	07833	01191	00107	.00316	.88515	.16231	00051	.00330
	GRADIENT	.00102	00013	.00032	08005	00012	.00041	.00103	.00805	00005	.00042
			EMF =	3.28	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAD =	14.000										
	07	CU)	CA	CLH	CY	CBL	CYN	CL.	CD	CSL	CLN
	.608	.78722	.00543	01401	02263	.00537	08428	.77424	. 14305	.00553	00533
	3.000	.79248	.80834	02157	02609	.00480	00006	.77934	. 14396	.00472	00029
	7.500	.80219	.00541	03745	02934	.00334	.00389	.78905	. 14463	.0395	.00325
	15.600	.82447	.00363	05799	03206	.00114	.00773	.81131	. 14674	.00247	.00742
	30.000	.64216	.00400	17472	02953	00071	.00887	.82857	.15018	.00084	.00625
	45.000	.66220	.00399	07656	02294	00100	.00704	.84843	. 15354	.00024	.00710
	60.000	.87051	.60538	08145	01780	00078	.00460	.85535	. 15546	.00003	.00467
	CRADIENT	.00200	00014	00316	00089	00040	.00107	.00199	.00021	00021	.00113

### TABULATED SOURCE DATA - CA20

PAGE 549 CA20 747/! 0! S! CARRIER DATA (HGN062) ( 25 NOV 75 ) REFERENCE DATA PARAMETRIC DATA 5500.0000 SQ.FT. SREF = 1339.9000 IN.XC XHEP ELV-IB -.000 ELV-08 = 3.000 LREF 327.7800 IN. YHRP .0000 IN.YC ELEVON = 5.000 HACH .600 2348.0400 IN. BREF = ZMRP 190.8000 IN.ZC BETAO = .000 BETAC -5.000 SCALE .= .0300 PHI .000 DY .000 DX .000 ALPHAC = 4.080 RN/L \* 3.22 GRADIENT INTERVAL -.00/ 12.00 ALPHAO = 10.000 DZ CN CX CLM CY CBL CYN CL CD CSL CLN .000 .41536 .04746 .02923 -10773 .01804 -.01928 .40812 .09962 .01593 -.02106 3.000 .41844 .04796 .02979 .10583 .01846 -.02188 .41114 .09144 .01608 -.02369 7.500 .43303 .04859 .00629 .10232 .01807 -.02172 .42558 .09359 .01570 -.02349 15.000 .45140 .04826 -.01233 .09937 .01812 -.02186 .44388 .09518 .01573 -.02363 30.000 .48122 .04648 -.03539 .09426 .01771 -.02071 .47372 .09552 .01545 -.02245 45.000 .50028 .04481 -.04538 .09098 .01675 -.01924 .49285 .09685 .01485 -.02089 60.000 .52063 .04329 -.05299 .00362 .01513 -.01565 .51326 .09748 .01341 -.01715 GRADIENT .00243 .00015 -.00323 -.00073 -.00800 -.08030 .00240 .00040 -.00003 -.00029 RN/L = 3.23 GRADIENT INTERVAL . .00/ 12.00 ALPHAO = 14.000 DZ CN CA CLH CY CBL CYN CL. CĐ CSL CLN .000 .34126 .04847 .10726 .10795 .01795 -.01884 .33432 .08387 .01588 -.02052 3.000 .34448 .09790 .11584 .10719 .01890 -.02169 .33759 .08365 .01653 -.02355 7.500 .35817 .04805 .10278 .10501 .01900 -.02324 .35119 .08523 .01646 -.02510 15.000 .38770 .04972 .06496 .09782 .01825 -.02116 .38038 .08997 .01594 -.02295 30.000 .43558 .04894 .01437 .09187 .01724 -.01934 .42808 .09421 .01512 -.02184 45.000 .46654 .04712 -.01407 .09084 -01714 -.01939 .45906 .09563 .01502 -.02107 60.000 .48937 .04572 -.02983 .08987 .01651 -.01891 .48092 .09552 .01444 -.02053 GRADIENT .00232 -.00005 -.00078 -.00040 .00013 -.00057 .00231 .00019 .00007 -.00058

DATE 04 D	EC 75	TABULA	TED SOUNCE	DATA - C	Y50					PA	GE <b>5</b> 50
			CASO	747/1	DI 51	•	CARRIER DATA	A.	(MGNDE	i31 (25 N	0V 75 )
	REFER	ENCE DATA							PARAMETRIC	DATA	
LREF =	5500.0080 327.7888 2348.0488 .0388	in. Yhrp	• .00 • 190.80	00 IN.XC 00 IN.YC 00 IN.ZC				ELV-IB = ELEVON = BETAO = PHI = DX =	.080 5.080 .000 .000	ELV-08 = MACH = ESTAC = DY = ALPHAC =	3.080 .600 -5.000 .000 4.000
			RM/L =	3.30	GRADIENT IN	ERVAL -	.00/ 12.00				
ALPHAO =	10.000										
	DZ	CN	CA.	CLH	CY	CBL,	CYN	CL	co	CST	CLN
	020.	.94566	.04415	-01616	.10617	.01738	01862	.43860	.09050	.01532	02053
	3.000	.4460 <b>7</b>	.04439	.02242	.10500	.01791	02181	.43999	.09077	.01554	02356
	7.588	.45567	.04533	.00361	.10203	.01777	02148	.44844	.09272	.01543	02322
	15.000 20.000	.47857	.04494	01565	.10000	.01763	02227	.46329	.09388	.01520	02359
	45.000	.49394	.04422	03B43	.69580	.01785	02160	.48661	.09561	.01549	02334
		.51645	.04320	04807	.09178	.01652	01958	.50314	.09632	.01477	02154
	60.000	.52480	.04199	05525	.09012	-01614	01895	.51753	.09661	.01407	02053
	GRADIENT	.60140	.08016	00187	08858	.00004	00032	.00137	.00031	.00001	00032
			RM/L □	3.27	GRADIENT IN	TERVAL -	.00/ 12.00				
ALPHAG =	14.800										
	DZ	C/4	CA	CLM	CY	CBL.	CYN	CL.	CD	CSL	CLN
	.000	.33974	.64194	. 14102	.11059	.01816	02032	.37427	.08151	.01593	02210
	3.600	.33405	.04288	.12956	.10981	.01860	02308	.37748	.02259	.01609	02490
	7.500	.29370	.04442	.11025	.10541	.01039	02329	.38690	.08533	.01525	02508
	15.000	.41551	.04648	.07016	.09714	.01766	02853	.40838	.08955	.01541	02226
	30.600	.4532!	.64670	.01609	-09363	.01737	02048	.44585	.09382	.01514	02219
	45.608	.47854	.04566	01118	.09100	.01699	01959	.47114	.05543	.01465	02126
	60.000	.49694	. 64454	02924	.09104	.01683	01951	.48946	.09823	.01449	02115
	GRADIENT	.00176	.00033	00412	00071	.00002	08037	.00172	.00052	80891	00037

TABULATED SOURCE DATA - CA20

CA20 747/1 01 SI

PAGE 551

(MGN064)

( 25 NOV 75 1

CARRIER DATA

	REFERENC	E DATA						PARAMETRIC DATA					
	5500.0000 50.			080 IN.XC				ELV-IB =	.600	# 80-VJ3	3.000		
LREF =	327.7800 IN.	YHRP		ODO IN.YC				ELEVON =	5.000	HACH =	.600		
	2348.0480 IN.	ZHRP	= 190.80	DOD IN.ZC				BETAC =	.000	PH1 =	.000		
SCALE =	.0380		-					DY =	.000	BETAC =	-5.600		
								DX =	20.000	ALPHAC =	4.000		
			RN/L =	3.30	GRADIENT INT	TERVAL -	.00/ 12.00						
ALPHAO =	10.000												
	DZ	CN	CA	CLH	CY	CĐL	CYN	CL	CD	CSL	CLN		
	.000	.45752	.04354	.00516	. 10203	.01812	02008	.45045	.09122	.01592	02188		
	3.000	.46173	.04380	00200	.10121	.01815	02086	.45462	.09183	.01587	02264		
•	7.500	.46861	.04394	01400	.10080	.01812	~.02189	.46145	.09268	.01573	~.02356		
	15.000	.47932	.64447	02696	.09774	.01802	02171	.47204	.09433	.01565	02347		
	30.000	.49700	.04426	04399	.09180	.01791	01951	.48965	.03597	.01527	05i35		
	45.000	.51002	.04356	05050	.09075	.01688	01918	.50267	.09663	.91478	02084		
	60.000	.52238	.04259	05397	.09258	.01703	02007	.51506	.09696	01484	02174		
	GRADIENT	.00148	.00804	00256	00027	00000	00024	.00147	.00019	00003	00024		
			RN/L =	3.30	GRADIENT INT	ERVAL =	.00/ 12.00						
ALPHAO =	14.000												
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN		
	.000	.40098	.03990	. 12522	.10916	.02102	02623	.39462	.08159	.01816	02828		
	3.000	.40673	.03998	. 12055	.10500	.02026	02481	.40032	.08228	.01755	02680		
	7.500	.41774	.04135	.09563	.10152	.01962	02303	.41113	.08479	.01718	02495		
	15.000	.43492	.04347	.05846	.09449	.01856	02013	.42799	.08870	.01635	02195		
	30.000	.46363	.04434	.01100	.08945	.01763	01856	.45346	.09256	.01550	02031		
	45.000	.48395	.04364	01080	.08951	.01720	01876	.47674	.09399	.01515	02045		
	60.000	.49921	.04287	02915	.08999	.0168B	01894	.49280	.09482	.01480	02060		
	GRADIENT	.00225	.00020	00407	00102	00018	.00042	.00222	.00044	00014	.00044		
	,												

Milityno 2004 io En ndva itvindiao

			CASO	747/1	01 51		CARRIER DATA		(MGN08	5) (25 N	OV 75 1
REFERENCE DATA									PARAMETRIC	DATA	
LREF .	5500.0000 <b>SQ.F</b> 327.7800 IN. 2348.0400 IN. .0300	YMRP	00	00 IN.XC 00 IN.YC 00 IN.ZC				ELV-IB = ELEVON = ESTAO = FHI = DX =	.000 5.000 .000 .000	ELV-OB = MACH = PETAC = DY = ALPHAC =	3.080 .600 -5.000 .000 9.000
			RN/L =	3.22	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	02 .000 3.000 7.500 15.000 60.000 69.000 GRADIENT	CN .82425 .02665 .03289 .64292 .65255 .67746 .69269 .00118	CA .00186 .00125 .006530002900170003100095300918	CLM 11175 11000 11331 11389 10559 10552 00025	CY .10323 .09894 .09472 .09153 .08537 .08699 .08802 00113	CBL .01770 .01814 .01823 .01920 .01890 .01954 .02006 .00007	CYN0153201650016550174001506015970166500015	CL .81141 .91329 .83014 .83017 .64974 .65465 .85011	CD .14496 .14467 .14515 .14608 .14611 .14931 .15059 .00003	CSL .01477 .01500 .01508 .01509 .01600 .01656 .01695	CLN 01816 01940 01946 02847 01811 01914 01939 08016
ALFHA9 =	19.600										
	DZ .000	CN .74275	CA .00149	CLH 01945	CY .11042	CBL .01891	CYN 01859	CL .73121	CD . 13845	CSL .01539	CLN 02159
	3.000	74710		02364	.10599	.01914	01999	.73543	.13152	.01539	02301
	7.590	.76197	.00154	03974	.09719	.01852	01741	.75005	.13423	.01522	02037
	15.000	.78350		05979	.08985	.01857	01605	.77138	.13730	.01550	01903
	30.080	.81835		07753	.08729	.01904	01634	.80669	.14128	.01591	01940
	45.080	.64371		09811	.08486	.01894	01542	.83135	. 14389	.01587	01645
	60.000	.66298		09257	.08665	.01953	01629	.85053	. 14609	.01640	01943
	GRADIENT	.00262	.08006	00277	00178	~.00006	.00019	.00257	.00051	00002	.00020



TABULATED SOURCE DATA - CA20

.00016

.00160

GRADIENT

-.00251

-.00144

PAGE 553 CARRIER DATA (HGN066) ( 25 NOV 75 ) CA20 747/1 OLSI PARAHETRIC DATA REFERENCE DATA 3.000 XHRP = 1339.9000 IN.XC ELV-IB -.000 ELV-08 = SREF = 5500,0000 SQ.FT. ELEVON = 5.000 HACH = .300 YHRP. .0000 IN.YC LREF = 327.7890 IN. BETAD = .000 BETAC = -5.000 BREF = 2348.0480 IN. ZHRP = 190.8000 IN.ZC PHI .000 DY .000 SCALE = .0300 8.000 DX 10.000 ALPHAC = RN/L = 3.24 GRADIENT INTERVAL . .00/ 12.00 ALPHA0 = 10.000 CLN CLH CY CBL CYN CL CD CSL DZ CN CA .01899 .83269 .14525 .01617 -.01766 -.00155 -. 12307 .10052 -.01458 .000 .84526 -.00186 -.11887 .09722 .01928 -.01579 .83235 .14488 .01624 -.O1E90 3.000 .84486 .83578 .14509 .01617 -.01965 7.500 .84828 ~.00224 -.11959 .09455 .01934 -.01655 -.02093 .85634 -.08266 -.12053 .09300 .02014 -.01771 .64379 .14608 .01676 15.000 -.01909 .01931 -.01598 .85656 .14818 .01624 30.000 .86928 -.00282 -.11144 .08731 -.00347 -.10679 .08783 .01895 -.01650 .85711 .14937 .01579 -.01954 45.000 .87997 -.00324 -.10912 .08818 .01855 -.01704 .87556 .15109 .01530 -.02001 60.000 .88849 -.00025 .00044 -.00002 -.00000 -.00026 14030. -.00078 .60804 GRADIENT .00043 -.00009 RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 19.000 CA CLH CY CBL CYN CL CD CSL CLN DZ CN .13212 .01574 -.02212 -.01582 .01934 -.01905 .76782 .800 .77910 -.00322 .10934 -.00275 -.02140 .10572 .01959 -.02013 .77083 .13312 .01580 -.02323 .78223 3.000 -.03443 .09863 .01895 -.01844 .77924 . 13536 .01546 -.02145 -.00200 7.500 .79091 -.02014 15.000 .00586 -.00194 -.05515 .09215 .01905 -.01710 .75493 .13920 .01579 -.07234 .08971 .01921 -.01746 .82073 .14211 .01589 -.02053 -.00257 30.000 .03294 .08586 -.01607 .83787 .14477 .01541 -.01903 45.000 .05028 -.00292 -.08102 .01848 .14739 -.01976 -.00293 -.08866 .08800 .01827 -.01684 .85276 .01507 60.000 .86540 -.00006 .00010 .00155 .00044 -.00004 .00011

			CA20	747/1	01 S!		CARRIER DATA		(HGN0E	7) (25 K	OV 75 1
	REFERENCE	E DATA							PARAMETRIC	DATA	
LREF =	5500.0000 SQ.( 327.7880 IN. 2348.0400 IN. .0390	TT. XHRP YHRP ZHRP	≖ .00	00 IN.XC 00 IN.YC 80 IN.ZC				ELV-IB = ELEVON = BETAO = DY = DX =	000. 5.000 000. 000. 000.05	ELV-OB = HACH = PHI = BETAC = ALPHAC =	3.000 .500 .000 -5.000 8.000
			RN/L =	3.28	GRADIENT INT	ERYAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.609	.85109	00217	14355	.09428	.01708	01487	.83933	.14579	.01424	01761
	3.800	.85051	00250	13404	.09233	.01757	01601	.83802	. 14523	-01453	01682
	7.500	.85227	00159	12758	.09254	.0:733	01734	.83960	. 14644	-01465	02898
	15.000	.66093	00241	12405	.09158	.01801	01786	.84827	. 14712	.01464	02072
	30.000	.67091	00155	-,11040	.08530	.01711	01526	.85764	.14959	.01410	01859
	45.880	.68028	00260	10751	.02540	.01665	01639	.85735	.15030	.01355	01904
	60.000	.63625	00236	11157	.08711	.01707	01703	.87319	. 15157	.01395	01974
	GRADIENT	.08008	.00009	.00206	00021	.00093	00033	.00006	.00910	00003	00033
			RN/L =	3.29	GRADIENT INT	ERVAL =	.09/ 12.00				
ALPHAO =	14.009										
	DZ	CM	CA	CLM	CY	CBL	CVN	CL	CD	CSL.	CLN
	.000	.75531	00371	02222	. 18456	.01931	02130	.78486	.13462	.01532	02432
	3.000	.60131	00295	03140	. 18075	.01852	02028	.78965	.13624	.01473	02311
	7.500	.60812	00190	64015	.69543	.01805	01900	.79617	.13946	.01448	02185
	15.000	.62842	00137	05158	.08881	.01758	01684	.80819	.14112	.01439	01953
	30.000	.64228	00148	06478	.09526	.01744	01554	.82974	.14489	.01445	01843
	45.000	.65545	60171	07359	.08559	.01733	01556	.84374	.14704	.01436	01933
	60.000	.86926	00187	08694	.08613	.01705	01639	.85538	. 14910	.01395	01910
	GRADIENT	.00157	.00024	00235	00122	00016	.00030	.00150	.00051	00011	.00033

TABULATED SOURCE DATA - CA20

-.00003

.00324

GRADIENT

-.00035

CARRIER DATA (MGN058) ( 25 NOV 75 ) CA20 747/1 OLS1 REFERENCE DATA PARAMETRIC DATA ELY-IB = 1339.9000 IN.XC .000 ELV-08 = 3.000 5500.0000 SQ.FT. XHRP = .0000 IN.YC ELEVON = 5.000 MACH .500 327.7800 IN. YHRP LREF BETAO = BETAC ZHRP = 190.8000 IN.ZC .000 -5.000 BREF = 2348.0400 IN. PHI .080 DY 10.000 SCALE = .0300 ĐΧ .000 ALPHAC = 4.000 3,29 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAG = 10.000 CBL CSL CLN CA CLH CY CYN CL CD ĐΖ CN .42989 .04973 -.04809 .09900 .02471 -.02263 .42234 .09439 .02221 -.02509 .080 .02409 -.02177 .43004 .09528 .02168 -.02417 3.000 .43765 .04981 -.04632 .08748 .04977 -.04740 .02262 -.01968 .44286 .09659 .02844 -.02185 7.500 .45053 .08404 .07994 .02055 -.01696 .09745 .01865 -.01902 15.000 .46571 .04903 -.04649 .45904 .04711 -.04970 .07778 .01778 -.01420 .48222 .09805 .01620 -.01598 30.000 .48983 -.05658 .08355 .01724 -.01673 .49943 .09778 .01540 -.01844 45.000 .50692 .04504 -.02022 .52320 .04300 -.06241 .09094 .01694 .515B4 .09745 .01474 -.02189 60.000 .00007 -.00857 -.00028 .00041 .00274 .00029 -.00024 .00044 GRADIENT .00276 .00800 3.22 GRADIENT INTERVAL = .60/ 12.00 ALPHAO = 14.000 CD CSL CLN CY CBL CYN CL DZ CN CA CLH .000 .35652 .04949 .02357 .08408 .03031 -.02513 .34939 .08649 .02752 -.02816 -.02786 .36495 .04900 .02828 .0B445 .02914 -.02495 .35783 .08688 .02637 3.000 .02734 -.02164 .37343 .08972 .02493 -.02438 .04920 .02154 .08001 7.590 .38066 .02233 15.000 .40696 .04963 .00452 .07194 .02413 -.01596 .39944 .09188 -.01840 .04907 -.01923 .06042 .01775 -.00663 .43935 .09551 .01695 -.00845 30.000 .44693 -.01161 .07305 .01677 .09555 .01547 -.01330 45.000 .47233 .04744 -.02933 .46478 60.000 .49168 .04545 -.04114 .08369 .01705 -.01689 .48424 .09559 .01521 -.01849 -.00059 -.00840 .00049 .00323 :00031 -.00034 .00053

PAGE 555

			CA20	747/1	0: Si	1	CARRIER DATA		(MGNOS	9) (25 NO	V 75 )
	REFERENCE	DATA						F	ARAHETRIC	DATA	
LREF =	589.0800 SQ.FT 327.7800 IN. 348.0400 IN. .0309	YHRP		IN.XC				ELV-18 = ELEVON = EETAO = PHI = UX =	.000 \$.000 .000 .000	ELV-00 = HACH = BETAC = OY = ALPHAC =	3.809 .600 -5.800 10.800 4.800
			RN/L =	3.25	ORADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAO =	10.889 OZ .600 3.900 7.500 15.000 90.000 95.000 60.000 GRADIENT	CN .44943 .45359 .46295 .47517 .49494 .50962 .52276 .00182	.04635 .04695 .04692	CLM 04159 03908 04469 04317 04994 05675 05847 00048	CY .09212 .09098 .08732 .08268 .07979 .08375 .09033 ~.00065	CBL .02286 .02263 .02165 .01994 .01753 .01695 .01679 00017	CYN03290022580204201782015220168701992 .00034	CL .44216 .44636 .45551 .46771 .48745 .50224 .51548	CD .09268 .09352 .09499 .09584 .09720 .09699 .09662	CSL .02035 .02020 .01940 .01797 .01595 .01599 .01483	CLN 02516 02483 02257 01991 01655 02147 .00036
ALPHAO =	14.600 02 .600 3.600 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .35990 .35910 .90497 .9295 .45913 .97825 .9881 .00185	CA .04307 .04324 .64499 .64645 .04685 .04572 .04419 .08023	CLH .04977 .05424 .64174 .01776 01222 02504 03741 09120	CY .08979 .08976 .08389 .07529 .06329 .07582 .08385 00083	CBL .02728 .02684 .02550 .02247 .01695 .01657 00024	CYN02508025400217801653007590130401705	CL .38422 .38742 .39755 .41770 .45072 .47184 .46987	.08399 .08419 .08702 .08061 .09448 .09556 .09582	CSL .02451 .02404 .02309 .02052 .01608 .01511 .01460	CLN 02780 02805 02433 01878 00922 01470 01870 .00049

GRADIENT

.00353

-.000039

-.00115

-.00080

-.00038

.00076

.00349

.00053

-.00024

.00001

TABULATED SOURCE DATA - CA20

PAGE 557 CA20 747/1 01 St CARRIER DATA (HGN070) ( 25 NOV 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 5500,0000 SQ.FT. XHRP = 1339.9000 IN.XC ELV-18 = .000 ELY-08 = 3.080 LREF = 327.7800 IN. YMRP .0000 IN.YC ELEVON = 5.000 HACH .600 BREF = 2348.0400 IN. ZHRP 190.8000 IN.ZC BETAO = .000 BETAC --5.000 SCALE = .0300 PHI .000 DY 10.000 ĐX .080 ALPHAC \* 8.000 RN/L \* 3.26 GRADIENT INTERVAL -.00/ 12.00 ALPHAO = 10.000 DZ CH CA CLH CY CBL. CYN CL CSL CD CLN .000 -.15364 .82634 .00255 .08055 .02154 -.01738 .81335 .14601 -.02085 .01819 3.000 .83926 .00173 -.14863 .07898 .02147 ~.01655 .81735 .14588 .01827 -.02002 7.500 .83622 .00116 -. 14087 .0765.8 .02089 -.01478 .82331 .14635 -.01818 .01801 15.000 .84526 .07384 .08055 -.12715 .01961 -.01255 .83232 .14732 -.01576 .01713 30.000 .66286 -.00111 -.11508 .07590 .01836 -.01229 .84994 . 14874 .01595 -.01529 45.000 -.00243 .67711 -.11248 .08121 .01839 -.01436 .86420 .14992 .01562 -.01734 -.00398 60.000 .89195 -.11152 .08700 .01895 -.01675 .07909 . 15096 .01576 -.01979 GRADIENT .00132 -.00018 .00170 -.00053 -.00009 .00035 .00133 .00005 -.00003 .00035 RN/L = 3.21 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000 DZ CN CA CLH CY CBL CYN CL, CO CSL CLN .000 .74353 .00358 -.07486 .07547 .02683 -.02032 .73161 .13264 .02289 -.02467 3.000 .75437 .00345 -.07575 .07335 .02573 -.01795 .74231 .13439 .02222 -.02215 7.500 .77003 -.08315 .00294 .05950 .02398 -.01461 .75702 .13561 .02107 -.01855 15.000 .79175 .00217 -.08776 .05249 30150. -.00918 .77934 .13953 .01915 -.01269 39.000 .82220 .00086 -.08653 .05118 .01758 -.00555 .B0955 .14362 .01633 -.00853 45.000 .64539 -.08094 -.09331 .07521 .01820 -.01195 .83271 14587 .01584 -.01493 -.00223 60.000 .05284 -.09918 .08099 .01830 -.01443 .85012 14764 .01552 -.01739

			CA20	747/1	01 51		CARRIER DATA	l.	(HOND)	1) (25 %	OV 75 1
	REFERE	INCE DATA							PARAMETRIC	DATA	
LREF =	5500.0000 9 327.7800 1 2349.0400 1 .0300	N. YHRP	<b>=</b> .00	000 IN.XC 000 IN.YC				ELV-IB = ELEVON = EZTAO = PHI = OX =	.008 5.080 .000 .000	ELV-08 = HACH = BETAC = DY = ALPHAC =	3.000 .500 -5.000 10.000 8.000
			RN/L =	3.25	GRADIENT IN	TERVAL =	.00.12.00				
ALPHAO =	10.000										
	02 .000 3.000 7.500 15.000 30.000 45.000 69.000 GRADIENT	CN .94133 .04341 .64749 .85526 .66832 .69129 .69411 .00083	.00060 .00024 00009 00034 00060 00212 00403 00403	CLM 15294 14704 13869 12870 11553 11168 11082 .00190	CY .09357 .09187 .07941 .07694 .07629 .08084 .08475 00056	CBL .02023 .02026 .01990 .01915 .01776 .01865 00005	CYN01771017000155701387012580143801591 .00029	CL .62845 .83056 .63463 .64233 .85524 .85626 .83123 .00083	CD .14659 .14659 .14708 .14818 .15019 .15095 .15129 .00006	CSL .01685 .01701 .01689 .01655 .01551 .01499 .01563	CLN 02095 02026 01879 01693 01725 01725 01691
ALPHAO =	14.030										
	02 .000 3.000 7.500 15.000 39.000 45.000 60.000 GRADIENT	CN .77909 .70520 .79636 .81178 .83362 .85319 .85712	CA .08022 .08045 .08054 .80059 .80050 80078 00186 .80804	CLM 65884 06179 07031 07779 07653 08703 09401 00156	CY .08035 .07827 .07889 .06580 .06512 .07609 .08046	CBL .02400 .02341 .02197 .01986 .01721 .01770 .01763	CYN01979018290148301002007470124701439 .00067	CL .76722 .77319 .78417 .79934 .82087 .84036 .85427	CD .13550 .13679 .13882 .14155 .14584 .14739 .14874 .00844	CSL .02020 .01989 .01906 .01782 .01565 .01527 .01486 00015	CLN 02369 02209 01641 01332 01054 01535 01723 .00071

GRADIENT

.00366

.00013

-.00599

-.00104

-.00079

.00183

.00363

.08051

-.10059

.00190

TABULATED SOURCE DATA - CA20 PAGE 559 DATE 04 DEC 75 CARRIER DATA CA20 747/1 01 51 (HGN072) ( 25 NOV 75 ) REFERENCE DATA PARAMETRIC DATA XHRP = . 1339.9000 IN.XC ELV-18 = ELV-08 -3.000 5500.0000 SQ.FT. .000 .0000 IN.YC ELEVON . 5.000 HACH .600 327.7800 IN. YHRP 2348.0400 IN. ZHRP 190.8000 IN.ZC BETAD -.080 PETAC -5.000 BREF -SCALE = .0300 PHI .000 DY 10.000 DX .000 ALPHAC = 4.000 RN/L = 3.20 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.600 CLH CY CBL CYN CL œ CSL CLN DZ CH CA -.00833 .05042 .04565 -.11791 .01347 .42371 .09523 -.00588 .01427 .000 .43134 3.000 .43932 .04991 .03187 -.11921 -.01028 .01710 .43170 .09555 -.00844 .01808 7.500 .45411 .04872 .00782 -.12465 -.01253 .02237 .44653 .09592 -.01012 .02355 .04689 -.02385 -.12542 -.01420 .02565 .46351 -.01152 15.000 .47099 .09586 .02780 -.05322 -. 12594 -.01543 .02847 -.01336 .03003 30.000 .49708 .04456 .48970 .02628 .04277 -.06268 -.12141 -.01717 .02747 .50530 -.01420 45.000 .51358 .09632 11650. -.01771 60.000 .53074 .64072 -.07087 -.11593 .02591 .52358 .09597 -.01499 .02762 -.00023 -.08507 -.00092 -.00055 .00306 .00009 -.00043 GRADIENT .00118 .00124 .00305 GRADIENT INTERVAL = RN/L = 3.22 .00/ 12.00 ALPHAO = 14.000 DŻ CN CA CLH CY CBL CYN CL CD CSL CLN .16948 -.11791 -.00258 .00630 .33630 .08332 -.00191 .00553 .34317 .04771 .000 3.080 .35120 .04810 .15878 -.11945 -.00509 .01183 .34424 .08462 -.00382 .01230 .37026 .04878 . 12549 -.12552 -.00852 .02003 .36314 .08713 -.00638 .02081 7.500 .06407 -.12746 -.01189 .02485 .39533 .09090 -.00922 .02595 15.000 .40365 .04899 30.000 .44840 .04785 -.00258 -.12014 -.01525 .02895 .44103 .09358 -.01215 .03020 -.01655 .02903 .03060 45.000 .47717 .04515 -.03370 -.12493 .46984 .09478 -.01343 -.05090 -.11994 -.01698 .02747 .49020 -.01401 .02909 60.000 .49750 .04378 .09554

DATE 04 DEC	75	TABULA	ITED SOURCE	DATA - C	A20					PA	SE 560
			CA20	747/1	01 51		CARRIER DATA	•	(MGND7	3) (25 N	DV 75 1
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF = 3	500.6000 SQ.F 527.7800 IN. 343.6460 IN. .0300	T. XHRP YHRP ZHRP	00	00 IN.XC 00 IN.YC 00 IN.ZC				ELV-18 = ELEVON = ESTAO = PNI = DX =	.080 5.090 .000 .000	ELV-08 = HACH = BETAC = DY = ALPHAC =	3.000 .600 5.000 10.000 4.000
			RN/L =	3.24	GRADIENT IN	ITERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 E.000 7.500 15.000 30.000 45.000 GRADIENT	CN .44354 .94787 .95889 .47372 .49637 .51189 .52677 .00209	CA .04738 .04720 .04652 .04513 .04311 .04009 00012	CLM .05092 .84176 .01778 01379 04854 05872 06951 00429	CY1112611388119591223912412121201185700112	C9L 00931 01098 01294 01459 01691 01747 01805 08048	CYN .01175 .01564 .02095 .02481 .02780 .02789 .02691 .00122	CL .43615 .44048 .45150 .45641 .48315 .50459 .51252	CB .09349 .09376 .05423 .09440 .09476 .09528 .09559	CSL 00803 00929 01058 01191 01380 01950 01515 08035	CLN .01266 .01671 .02219 .02620 .02950 .02916 .02625 .00127
	14.000 DZ .000 3.000 7.600 15.000 30.000 95.000 60.000 GRADIENT	CN .37250 .59293 .40029 .48253 .48148 .48628 .50309 .00295	CA .04397 .04474 .04597 .04594 .04924 .04301 .04228	CLM .17073 .16885 .12071 .06194 00288 03224 04864 00885	CY 11153 11435 12124 12505 12760 12447 12146 00131	CBL 00594 00799 01888 01342 01626 01747 01791	CYN .00767 .01292 .01999 .02482 .02900 .02878 .02769	CL .37191 .37715 .39330 .41850 .45433 .47912 .49591	CD .08331 .08463 .08746 .09018 .09223 .09361 .09464 .00056	CSL 00511 00561 00873 01075 01324 01436 01492 00048	CLN .00925 .01359 .0102 .02600 .03055 .03045 .02940

TABULATED SOURCE DATA - CA20

(HGN074) ( 25 NOV 75 ) CARRIER DATA CA20 747/1 01 SI PARAMETRIC DATA REFERENCE DATA 3.000 ELY-08 = ELV-IB = .000 XHRP = 1339.9000 IN.XC SREF - 5500.0000 SQ.FT. .600 HACH 5.000 ELEYON = YHRP = .0000 IN.YC LREF = 327.7800 IN. BETAC = 5.000 BETAD = .000 190.8080 IN.ZC ZHRP = BREF = 2348.0400 IN. 10.000 .000 DY PHI SCALE = .0300 8.000 .000 ALPHAC = ñχ .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.27 ALPHAO = 10.000 CLN CD CSL CYN CL CBL CLH CY CA Đ7 CK -.00804 .01615 .14737 .01451 .82363 -.12209 -.01072 -.11598 .00211 .000 .83570 -.00848 .02011 .01933 .82546 . 14665 -.01184 -.12308 .00108 -.11748 .83839 3.000 .14548 -.08880 .02300 .02112 .62829 -.01238 -.12108 -.12303 .00034 .84113 7,500 .02652 -.00948 .02457 .83690 .14732 -.01396 -.12451 -.12550 .84977 -,00025 15.000 .02765 .14975 -.01059 .02479 .85339 -.01523 -.12899 -.11979 -.00072 .85643 30.000 ~.01110 .02649 .15203 .02416 .86574 -.11678 -.01553 -.12756 .07699 -.00062 45.000 .02508 .15446 -.01132 .87799 -.01568 .02372 -.12699 -.11445 -.00035 .09148 60.000 .00089 -.00012 -.00010 .00086 .00062 -.00025 -.00069 -.00011 -.00023 GRADIENT .08059 3.22 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAO = 14.000 CD CSL CLN CYN CL CLH CY CBL CA CN ÐΖ .01098 -.08462 .13365 .01002 .74280 -.12339 -.00545 .00264 -.01727 .75476 .000 .01732 -.00525 .75192 .13463 -.00917 .01597 .00202 -.02763 -.12692 .76397 3.000 .02301 .13616 -.00758 .02135 .76770 -.01146 -.05606 -.12899 .00978 7.580 .77968 .02692 -.00235 .02485 .78639 .13792 -.12528 -.01348 -.00073 -.08233 .79839 15.080 .02313 .14208 -.01062 .81418 -.12523 -.01552 .02584 -.00146 -.10271 30.000 .82648 .02765 -.01174 .14593 .836B0 -.0t635 .02520 -.11944 -.00160 -.10949 45.000 .84943 .DE649 -.01261 .85290 . 14822 -.01702 .02399 -.11565 -.00213 -.11454 .85568 60.000 .00158 .00031 -.00039

-.00526

-.80027

.00334

GRADIENT

-.00073

-.00055

.00333

.00149

D,114 01 02	•										
			CA20	747/l	01 51	4	CARRIER DATA		(HGN97	5) (25 NO	rv 75 j
	REFERENCE	DATA					·		PARAHETRIC	DATA	
LREF =	500.0000 5 <b>0.</b> F 327.7800 IN. 348.0400 IN.	T. XHRP = YHRP = ZHRP =		IO IN.XC IO IN.YC IO IN.ZC				ELV-18 = ELEVON = EITAO = PH1 = DX =	.000 5.000 .000 .000	ELV-08 = MACH = EETAC = DY = ALFHAC =	3.000 .680 5.000 10.000 8.000
			RN/L =	3.24	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .600 3.600 7.500 15.000 30.000 45.088 60.009 GRADIENT	.84382 .84571 .64677 .65524 .86899 .87911	.00371 .00290 .00203 .00164	CLH 12057 12180 12339 12690 12656 13112 00037	CY1164111794120081216011961117441161700048 GRADIENT IN	CBL 00972 01069 01186 01347 01434 01441 01435 00028	CYN .01434 .01717 .02051 .02411 .02513 .02495 .02502 .00082	CL .83024 .83222 .83537 .84190 .85537 .85545 .87581	CD .15096 .15051 .15024 .15051 .15269 .15443 .15540	CSL 00768 00753 00812 00908 00976 00965 00979 00014	CLN .01582 .01976 .02226 .02603 .02723 .02707 .02713 .00095
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 95.000 60.000 GRADIENT	.75468 .75963 .77211 .76639 .81391 .83620	CA .00252 .00304 .00211 .00059 .00127 .00162 .00269 .00269	CLH .09298 01264 03840 06905 09201 10229 10973 00552	CY 11789 12069 12419 12544 12474 11940 11604 00083	CBL 00740 00895 01106 01304 01639 01789 01859 00049	CYN .01180 .01643 .02090 .02448 .02655 .02479 .02382	CL .74260 .74757 .76801 .77432 .80167 .82381 .83932 .00225	CD .13452 .13490 .13616 .13724 .14005 .14342 .14527 .00022	CSL 00524 00596 00726 00859 01153 01332 01417 00027	CLN .01291 .01774 .02250 .02637 .02899 .02752 .02659

ORIGINAL PAGII IS OII POOR QUALITY

			CVSO	747/1	O1 S1		CARRIER DATA		(MGN07	6) (25 NO	ıv 75 ı
	REFERENCE	DATA						4	PARAMETRIC	DATA	
LREF -	500.0000 SQ.F 327.7800 IN. 348.6400 IN. .0300	T. XHRP YHRP ZHRP		00 IN.XC 00 IN.YC 00 IN.ZC				ELV-1B = ELEVON = BETAO = PHI = DX =	000 5.000 .000 7.500 .000	ELV-08 = MACH = BETAC = BY = ALPHAC =	3.080 .600 -5.000 .000 4.000
			RN/L =	3.82	GRADIENT	INTERVAL =	.00/ 12.00				
ALPHAO *	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 69.000 GRADIENT	CN .42575 .43040 .44121 .46197 .42869 .50620 .52307 .00209	CA .04843 .04818 .04796 .04726 .04568 .04420 .04258 00006	CLH .03262 .03174 .01712 01151 03453 04644 05619 00216	CY .093 .095 .098 .096 .093 .088 .000	04 .01525 17 .01614 36 .01632 89 .01687 10 .01627 21 .01545	CYN0138301731020890210402162020190175900094	CL .41835 .42301 .43378 .45450 .48124 .49581 .51575 .00208	CD .09267 .09291 .09384 .69529 .09552 .09687 .09703	CSL .01324 .01338 .01396 .01404 .01452 .01407 .01353 .00008	CLN 01530 01891 02257 02263 02326 02178 01911 00095
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .34530 .35529 .36955 .39770 .44401 .47273 .49279	CA .04594 .04741 .04837 .04894 .04765 .04604 .04442	CLH .12776 .12007 .10542 .06587 .01168 01592 03270	CY .091 .094 .097 .095 .094 .093	73 .01461 61 .01530 56 .01523 96 .01642 31 .01640 36 .01622	CYN0123601628019790166002110020760203400097	CL .33861 .34839 .36247 .39040 .43660 .46533 .46544	CD .08178 .08429 .08673 .09024 .09380 .08521 .09569 .00085	CSL .01245 .01283 .01315 .01321 .01412 .01414 .01401	CLN 01374 01771 02128 02009 02270 02236 02193 00099

.04336

.00035

.49537

.00126

60.000

GRADIENT

-.02754

-.00236

CAPO 747/1 01 51

(MGN077) ( 25 NOV 75 ) CARRIER DATA

.09491

.00049

.48812

15100.

-.02081

-.00135

.01663

.00024

.01435

.00009

-.00137

			CY50	74771	01 51	'	CAUTICA DATA		***************************************		
	REFERENC	E DATA							PARAMETRIC	DATA	
		FT. XHRP	- 1775 Of	080 IN.XC				ELV-18 -	.000	ELV-08 =	3.000
	5500.0000 SQ.			DOD IN.YC				ELEVON -	5.000	MACH =	.600
LREF =	327.7800 IN.			000 IN.ZC				BETAD -	.000	BETAC =	-5.000
	2348.0480 IN.	Zratir	5 150.da	300 111.20				PHI =	7.500	DY =	.000
SCALE =	.0300							DX =	10.000	ALPHAC =	4.000
			RN/L =	3.29	GRADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAO =	10.000								CĐ	CSL.	CLN
	DZ	CN	CA	CLM	CY	CBL	CAN	CL	.09173	.01300	01480
	.000	.44670	.04529	.02103	.09694	.01448	01336	.43952 .43959	.09170	.01355	01931
	3.000	.44 <b>577</b>	.64535	.02980	.09919	.01549	01779 02150	.44556	.09282	.01390	02308
	7.500	.45283	.04573	.01909	.10301	.01624	02150	.46164	.09457	.01531	02409
	15.000	.46900	.64530	00938	.10190	.01675	02276	.48462	.09570	.01464	02445
	30.000	.49197	.04452	02963	.69953	.01732	02055	.59151	.09649	.01415	02216
	45 10	.50885	.84354	844EB	.09527	.01628	01927	.51549	.09709	.01437	02088
	60.000	.52282	.04269	05101	#4569.		00107	.00087	.00015	.00012	00108
	GRADIENT	.00088	.00008	00043	.00081	.00023	00107	.00001	.00012		
			RN/L =	3.29	GRADIENT INTO	ERVAL =	.00/ 12.00				
ALPHAO =	14.080			_			8441	CL	CD	CSL	CLN
	ÐΖ	CN	CA	CLH	CY	CBL.	CYN	.37578	.08098	.01240	01694
	.080	.38218	.04118	. 14653	.09287	.01348	00958	.37785	.08225	.01290	01637
	3.000	.33458	.04230	.13903	.09695	.01454	01493	.37765	.08457	.01314	02135
	7.500	.39143	.84390	. 12876	.10074	.01530	01985	.40717	.08892	.01329	02139
	15.000	.41422	.84577	.08036	.09794	.01545	01939	.44393	.09229	.01453	02414
	30.000	.45114	.04539	.02332	.09970	.01697	02249	.46318	.03553	.01439	02274
	45.000	.47649	.04496	-,08908	.09637	.01669	02111	48812	.03491	.01436	02244
			A	000C1							

.09573

.00103

DATE 04 DE	C 75	TABUL	LITED SOURCE	DATA - C	A20					PAG	GE 565
			CA20	747/1	01 51		CARRIER DATA		(HGN07	8) (25 N	OV 75 )
	REFERENCE	ATAG 3							PARAHETRIC	DATA	
LREF =	5500.0000 SQ.F 327.7800 IN. 2348.0400 IN.	T. XHRP YHRP ZHRP	00	000 IN.XC 000 IN.YC 000 IN.ZC				ELV-IB = ELEVON = BETAO = PHI = DX =	.000 5.000 .000 7.500 .000	ELV-08 = HACH = BETAC = DY = ALPHAC =	3.000 .600 ~5.000 .000 8.000
			RN/L =	3.21	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .006 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .82864 .83061 .83770 .84646 .86263 .87522 .98450 .00124	CA .00154 .60072 .00014 60047 60150 00218 60294 60018	CLH1074810935109261109210551103771050100031		CBL .01550 .01626 .01662 .01746 .01718 .01784 .01846 .08014	CYN0129401636017770188901632017140175608063	CL .81578 .81765 .82495 .83368 .84979 .86230 .87157 .00125	CD .14541 .14494 .14560 .14652 .14832 .14983 .15069	CSL .01303 .01317 .01328 .01392 .01409 .01459 .01513 .00003	CLN 01533 01893 02039 02163 01996 01998 02050 00065
ALPHAO •	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .75257 .75628 .76892 .79006 .82242 .84435 .86023	CA .00079 .00069 .00055 .00091 00160 00210 00292 00003	CLM 01807 01820 03358 05627 07622 08458 09071 00217	.09038 .09500	CRL .01593 .01635 .01659 .01636 .01913 .01761 .01794	CYN 01219 01589 01758 01582 01986 01722 01770 00069	CL .74100 .74467 .75715 .77806 .81020 .83189 .84767	CD .13146 .13199 .13406 .13721 .14124 .14456 .14650	CSL .01357 .01335 .01329 .01337 .01441 .01435 .01460 00004	CLN 01477 01849 02020 01642 02271 02002 02055 00070

											VL 500
			CA20	747/1	01 51		CARRIER DATA		(HGND)	79) (25 N	OV 75 1
	REFERE	YCE DATA							PARAMETRIC	DATA	
SREF =	5590.0000 St			80 IN.XC				ELV-19 =	.000	ELV-08 =	3.000
	327.7880 II 2348.8480 II			88 IN.YC				ELEVON =	5.000	MACH =	.690
SCALE =	.0308	v. ZMRP	= 190.88	00 IN.ZC				EETAO •	.000	BETAC =	-5.000
SCALE -	•0200							PHI =	7.500	DY =	.000
								DX =	10.000	ALPHAC =	8.000
			RN/L =	3.28	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAD =	10.080										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL.	CD	CSL	CLN
	.690	.83817	.00016	11591	.69708	.01580	~.01235	.62541	. 14570	.01322	01488
	3.608	.83656	88014	10749	.09920	.01657	01676	.82388	.14513	.01341	01939
	7.500	.83968	08051	10843	.101 <b>7</b> 8	.01733	02019	.62721	. 14534	.01355	02290
	15.000	.B4874	00069	11438	.09831	.01779	01940	.83597	. 14670	.01415	02220
	30.000	.68153	00145	10721	.09139	.01789	01757	.84869	.14818	.01457	02041
	45.000	.67389	00250	09954	.09179	.01851	01744	.86104	.14928	.01520	02039
	60.000	.68051	00405	09936	.09907	.01879	01546	.86784	. 14691	.01582	01849
	GRADIENT	.00027	00869	.00090	.00052	.00023	00102	.00028	08084	- 00004	00105
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	ĐZ	CN	CA	CLH	CY	CBL	CAM	CŁ	CO	CSL	CLN
	.000	.77856	08063	01019	.09926	.01381	01150	.76684	. 13457	.01161	01372
	3.600	.77540	08853	.00224	.10130	.01483	01653	.76371	.13412	.01173	01888
	7.590	.70195	00045	00903	.10600	.01606	02231	.77016	. 13534	.01194	02476
	15.000	.79919	00031	03614	.09622	.01578	01857	.78612	.13830	.01232	02103
	20.000	.82363	00089	05901	.09715	.01599	02104	.81127	.14215	.01308	02357
	45.000	.84150	60133	07112	.09881	.01683	01741	.82895	.14481	.01355	02007
	69.009	.85569	00242	07999	.09303	.01764	01829	.84311	. 14621	.01419	02107
	CRADIENT	.08053	.00002	00006	.00091	.08030	00143	.00052	.00012	.00004	00146

. . . .

GRADIENT

.0029+

TABULATED SOURCE DATA - CAZO

( 25 NOV 75 ) (MGN080) CARRIER DATA CA20 747/1 OI SI PARAMETRIC DATA REFERENCE DATA ELV-08 = 3.000 ELY-18 = .000 XHRP = 1339.9000 IN.XC SREF - 5500.0000 SQ.FT. .600 5.000 HACH ELEVON = .0000 IN.YC LREF = 327.7800 IN. YHRP BETAC . BETAO = .000 -5.000 190.8000 IN.ZC ZHRP = BREF = 2348.0400 IN. 10.000 DY PH1 7.500 .0300 SCALE -4.000 .000 ALPHAC = DΧ RN/L = 3.33 GRADIENT INTERVAL = .00/ 12.00 ALPHAD = 16.000 CLN CL CD C5L CYN CLH CY CBL CA CN DZ -.02070 .09572 .01890 .02096 -.01861 .42472 .08118 .05091 -.05078 .000 .43240 .09582 .01894 -.02044 .02097 -.01835 .43008 .08059 -.03967 .43774 .05034 3.000 -.01939 -.01737 .44102 .09561 .01829 .02022 -.03822 .07958 .04998 .44870 7.500 .09729 .01697 -.01737 -.01550 .45630 .07806 .01869 -.03936 .04906 15.000 ,46397 .01527 -.01705 .09767 -.01536 .48173 .01697 .04670 -.04469 .08058 .48930 30.000 -.01947 .09756 .01484 .01680 -.01782 .49789 .08608 .04498 -.05379 .50536 45.000 .09785 .0149B -.02372 -.02203 .51023 .09446 .01738 .04398 -.06952 60.000 .51766 .00018 -.00009 .08012 .00017 .00219 -.00021 -.00010 .00157 .00219 -.60011 GRADIENT RN/L = 3.32 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000 CSL CLN CL CD CYN CLH CY CBL CA DZ CN .02174 -.01823 .08567 .02352 -.01586 .34691 .06536 .05896 .04993 .000 .35407 .09723 .02185 -.01801 .35315 .02361 -.01563 .06652 .64984 .05994 .36034 3.000 -.01713 .36852 .08986 .02128 .64771 .05748 .02296 -.01481 .04985 7.500 .37579 .01916 -.01402 .39383 .09183 .02052 -.01194 .06569 .03116 15.000 .40127 .05016 -.01005 .09513 .01539 .43510 .01634 -.00839 .04913 -.00338 .06521 .44266 30.000 -.01653 .09510 .01499 -.01487 .46334 .02000 .01654 -.02326 .04714 45.000 .47085 .09835 .01492 -.02017 .48320 -.01850 .08792 .01695 .49062 .04531 -.03991 60.000 .00015 .00030 -.00007 .00292 .00028 -.00008 .00014 -.00001 -.00160

			CA20	747/1	01 51	•	CARRIER DATA		(MGN08	L) (25 NO	DV 75 )
	REFERENCE	DATA			•				PARAMETRIC	DATA	
LREF .	580.0000 <b>SQ.F</b> 327.7800 IN. 348.0400 IN. .0300	YHRP	00	00 IN.XC 00 IN.YC 00 IN.ZC	·			ELV-IB = ELEVON = EETAO = PHI = DII =	.060 5.080 .080 7.500 10.000	ELV-09 = HACH = BETAC = DY = ALPHAC =	3.000 .600 -5.000 10.000 4.000
	· ·		RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
= CAHPLIA	10.000 DZ .000 3.008 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .95223 .46477 .46190 .97404 .49366 .50596 .52507	CA .04648 .04652 .04695 .04693 .04536 .04378 .04181 .00808	CLH 03946 03489 03546 03944 04954 05517 06911 .00048	CY .09484 .08471 .08424 .08249 .08275 .08755 .09435 00008	CBL .02022 .02023 .01958 .01958 .01702 .01692 .01711 00008	CYN01877018940183401634016330183002142 .00005	CL .44489 .44741 .45446 .46656 .48621 .50160 .51793	CD .09350 .69550 .09497 .09574 .09574 .09546	CSL .01814 .01814 .01785 .01653 .01522 .01482 .01477 00007	CLN02078020950189301893019950230900007
ALPHAO =	19.000 DZ .000 3.000 7.500 15.000 20.000 45.000 60.000 GRADIENT	CTI .ECM28 .ECM28 .ECM289 .WEIM2 .WEIM2 .WEW2 .WEEM4 .WEEM5 .WEEM	CA .04342 .04434 .04518 .04654 .04655 .04521 .04370	CLM .06236 .05493 .05624 .03910 00211 02046 03890 00090	.07503 .07066 .06798 .09235	CBL .02212 .02250 .02200 .01990 .01605 .01661 .01676	CYN01814017750165101308009120155601863 .00022	CL .38759 .38949 .39694 .41425 .44756 .47080 .48946	CD .08439 .08552 .09715 .09033 .09385 .09495 .09539	CSL .02011 .02052 .02015 .01843 .01502 .01468 .01472	CLN 02035 02001 01872 01507 01075 01731 02028 .00022

.

TABULATED SOURCE DATA - CA20

(MGN082) ( 25 NOV 75 ) CARRIER DATA CA20 747/1 OI SI PARAMETRIC DATA REFERENCE DATA ELV-08 = 3.000 .000 ELV-18 -1339.9000 IN.XC XHEP = 5500.0000 SQ.FT. .600 HACH ELEVON = 5.000 .0000 IN.YC 327.7800 IN. YHRP = -5.000 .000 BETAC -BETAO = 190.8000 IN.ZC ZHRP = 2348.0400 IN. BREF = 10.080 7.500 DY PHI SCALE = .0300 8.000 ALPHAC = ĐΧ .000 .00/ 12.00 GRADIENT INTERVAL . 3.26 RN/L = ALPHA0 = 10.000 CSL. CLN CL CD CDL. CYN CY CA CLH CH DZ .14700 .01658 -.01921 .81685 -.01604 .01968 .00292 -. 15004 .07841 .000 .82997 -.01883 .01673 . 14635 .91874 .01975 -.01564 .07827 .00195 -.14180 3.000 .83172 -.01792 .01649 .82310 .14640 -.01478 .01935 -.13270 .07761 .83602 .00125 7.500 .01618 -.01674 .14715 -.01368 .83278 .01884 .07735 .00030 -.12045 15.000 .84568 -.01729 .01553 -.01433 .14817 .01830 .84921 -.11260 .08103 -.00154 30.000 .86204 .14949 .01516 -.01859 -.01577 .86202 .01617 -.11099 .08496 .87488 -.00247 45.080 -.02017 .15065 .01466 .87399 .01794 -.01732 .08922 -.00340 -.10764 60.000 .89697 .00018 -.00007 -.00001 .00017 .000B4 .00229 -.00011 -.00004 -.00022 \$8000. GRADIENT .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.28 ALPHAO = 14.080 CLN CO CSL. CL CBL CYN CY CLH CA DΖ CN -.01793 . 13294 .02842 .02322 -.01411 .72988 .00418 -.06401 .05510 .74187 .000 -.01720 .01997 .13385 .02256 -.01349 .73786 -.06055 .06572 .74989 .00369 3.000 -.01491 .75072 .13564 .01895 .02125 -.01139 .06466 .00322 -.06255 .76286 7.500 -.01155 .01723 .13837 -.00939 .77184 .06282 .01898 -.07213 .00223 .78415 15.000 -.01078 .01543 -.00794 .80461 .14212 .05795 .01707 -.08187 .81707 .00025 30.000 . 14452 .01540 -.01705 .82843 .01813 -.01412 -.08998 .0B103 -.00153 .84094 45.680 -.01878 .14673 .01499 -.01589 .84698 .08552 .01893 -.09751 -.00258 60.000 .65959 -.00020 .00041 .00278 .00035 -.00027 .00037 -.08087 -.00013 .00015 .00281 GRADIENT

			CV50	747/1	01 51		CARRIER DATA	١	(MGNBE	33) (25 N	:0V 75 )
	refer	ENCE DATA							PARAMETRIC	DATA	
SREF = LRSF = BREF = SCALE =	5500.0000 327.7800 2349.0400 .0300	IN. YMRP	0:	080 IN.XC 080 IN.YC 000 IN.ZC				ELV-IB = ELEVON = EETAO = FHI = DX =	.000 5.000 .000 7.500 10.000	ELV-08 = MACH = BETAC = DY = ALPHAC =	3.000 .600 -5.000 10.000 8.000
		•	RN/L =	3.25	GRADIENT IN	TERVAL =	.00/ 12.68				
ALPHAO =	10.080										
	02 3.000 7.500 15.000 50.000 95.000 60.000 GRADIENT	.84201 .84429 .64960 .65421	CA .80060 .00022 .00010 .00011 80074 00169 00271 00006	CLH14835143151345912170115711128110266 .00183	CY .08073 .08140 .08132 .07880 .08157 .08559 .08976 .00087	C9. .01642 .01658 .01638 .01769 .01749 .01609 00001	CYN01598016340159701452014520160201602 .00001	CL .02728 .82918 .83204 .83697 .05120 .85273 .87005 .00083	CD .14648 .14643 .14692 .14769 .14934 .16051 .15067	CSL .01537 .01546 .01533 .01450 .01460 .01423 .01290	CLN 01694 01932 01892 01797 01794 01698 .00001
VTSHYO =	19.080 DZ .800 3.080 7.500 15.880 39.090 95.000 60.800 GRADIENT	CN .77900 .78147 .79180 .00532 .02883 .64764 .86316	CA .00051 .00077 .00057 .00075 .00011 00113 00213	CLH 05355 04917 05367 05103 07395 08512 09291 00009	CY .07220 .07146 .06998 .05444 .06925 .08156 .08535	CBL .02063 .02011 .01926 .01701 .01596 .01721 .01672	CYN01465014640122800918002510146301583 .00032	CL .76708 .76946 .77889 .79295 .81626 .83915 .65041	CD .13577 .13646 .13792 .14058 .14404 .14611 .14779	CSL .01777 .01737 .01683 .01933 .01915 .01940 .01372	CLN 01601 01732 01544 01101 01113 01733 01849 .00035

The second secon

DATE OF DE	r io	INDOLA	1100 200.000 1								
			CY50	747/1	01 St	(	CARRIER DATA		(MGN09	+) r 25 NO	v 75 )
	REFERENCE	DATA						F	PARAMETRIC	DATA	
LREF -	500.0000 SQ.F 327.7800 IN. 348.0400 IN. .0300	T. X145P Y145P Z146P	00	00 1M.XC 00 (N.YC 00 (N.ZC				ELV-18 = ELEVON = BETAO = PHI = OX =	.000 5.000 .000 7.500	ELV-09 = MACH = BETAC = DY = ALPHAC =	3.000 .600 .000 .000 4.000
			RN/L =	3.19	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .41572 .42519 .43755 .46961 .48807 .50713 .52622 .00290	CA .05411 .05401 .05353 .05251 .05048 .04885 .04729 00008	CLH .04265 .03677 .01721 00641 03493 04697 05679 00347	CY02149016880139301212010930098100629 .00098 GRADIENT INI	CBL00318002660020200169001710010800015	CY.4 .00718 .00495 .00353 .00280 .00280 .00169 .00014 00047	CL .40779 .41722 .42956 .45260 .48012 .49025 .51640 .00289	CD .09727 .09816 .09897 .10036 .10122 .10159 .10203 .00022	C5L 00241 00213 00164 00159 0019 00084 00017	CLN .00747 .00520 .00372 .00293 .00303 .00179 .00016
alphao =	14.00D 02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .31987 .33341 .35356 .38776 .43998 .47171 .49355 .00449	CA .05016 .05051 .05224 .05380 .05309 .05131 .04941 .00029	CLM .16402 .17029 .13777 .68838 .01706 01180 03250	00852 00785	CBL 00508 00404 00391 00268 00207 00134 00095	CYN .01404 .01102 .00757 .00337 .00310 .00180 .00123	CL .31288 .32630 .34616 .38001 .43202 .46376 .48558 .00444	CD .08332 .08508 .08991 .09404 .09379 .10033 .00075	CSL 00357 00285 00280 00231 00173 00114 00082 .80010	CLN .01449 .01138 .00759 .00353 .00359 .00139 00087

TABULATED SOURCE DATA - CA20

DATE OF DE		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
			CA20	747/1	01 51		CARRIER DATA	•	(MGNOS	5) (25 N	DV 75 )
	REFERENCE	DATA						:	PARAMETRIC	DATA	
LREF =	327.7800 IN. 327.6400 IN. 348.6400 IN.	FT. XMRP YMRP ZMRP	= .08	00 IH.XC 00 IN.YC 00 IN.ZC				ELV-18 = ELEVON = ESTAO = PHI = DX =	.000 5.000 .000 7.500 10.000	ELV-08 = HACH = BETAC = DY = ALPHAC =	3.000 .600 .000 .000 4.000
			RN/L =	3.25	GRADIENT	INTERVAL =	.09/ 12.60				
ALPHAO =	10.000										
	OZ	CSI	CA	CLH	CY	CBL	CYN	CL.	CD	CSL	CLN
	.000	.43564	.65286	.03918	0207	900297	.00734	.42722	.09724	00219	.00781
	3.000	.63896	.05250	. 03544	0183	<b>00270</b>	.08623	.43105	.09909	00204	.08648
	7.500	.4488D	.05255	.02464	0136	100193	.00381	.44005	.02909	00152	.00399
	15,089	.46523	.05199	00280	+.0109		.00262	.45725	. 10034	00138	.09278
	30.080	.49135	.05047	03277	0103	500150	.00275	.48339	.10156	00120	.00290
	45.080	.50822	.04924	04510	0082	00090	.00166	.50029	.10209	80072	.00175
	60.000	.52236	.84795	05369	0081	300065	.00131	.51449	.10229	00052	.00137
	GRADIENT	.00175	.00096	00205	.0009	7 .60014	000#B	.00173	.00024	.00003	00049
			RN/L -	3.26	GRADIENT	INTERVAL =	.00/ 12.00				
ALPHAO =	14.080						<b></b>		<b>6</b> 5	<b>6</b> 00	CLN
	DZ	CU1	CA	CLH	CY	CBL	CYN .01058	CL . 25635	CD .09279	CSL 00298	.0109S
	.000	.23305	.04589	. 19164	02576		.01058	.36108	.08599	00315	.01033
	3.000	.58889	.64778	.17746	02456 0175		.00591	.37484	.68394	00255	.00521
	7.500	.38139	.05935	.14807				.40349	.03557	00201	.00326
	15.000	.91110	.05133	.08623	01203		.00305	.44320	.09782	00201	.00326
	30.000	.45100	.05096	.02417	0092		.00226		.09782	00147	.00195
	45.00D	.47828	.64977	00932	0084		.00182	.47846			
	60.000	.49429	.04931	02555	00901		.00145	.46643	.10070	00085	.00154
	GRADIENT	.00249	.00069	00597	.0011	3 .00013	00054	.00240	.00095	.00006	00065

TABULATED SOURCE DATA - CA20

PAGE 573 CA20 747/1 01 S1 CARRIER BATA (HGN096) ( 25 NOV 75 ) REFERENCE DATA PARAMETRIC DATA ELY-08 = SREF = 5500.0000 SQ.FT. XHRP = 1339.9000 IN.XC ELV-IB = .000 3.000 LREF 327.7800 IN. YHRP .0000 IN.YC ELEVON = HACH 5.000 .600 BREF - 2348.0400 IN. ZMRP \* 190.8000 IN.ZC BETAD = BETAC . .000 .000 SCALE = .0300 PHI 7.500 DY .088 ĐΧ .000 ALPHAC = 8,000 RN/L = 3.22 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000 CN CA CLH CY CBL CYN CL CD CSL CLN .00889 -.11055 -.01556 -.00151 .080 .82735 .00302 .81323 .15242 -.00096 .00324 3.000 .83020 .00837 -.10334 -.01496 -.00148 .00323 . 15240 .81613 -.00089 .003+3 7.500 .83699 .00744 -.09987 -.01367 -.00143 .00315 .82299 . 15267 -.00086 .00335 -.09696 -.01285 -.00135 .00308 15.000 .84531 .00621 .83139 . 15290 -.00079 .00327 30.080 .85911 .00533 -.09020 -.01046 -.00095 .00238 .84513 .15443 -.00053 .00251 45.080 97007 .00560 -.08362 -.00956 -.000008 .00205 .85597 . 15560 .00027 .00203 60.000 .89028 .00592 -.08244 -.01034 .00130 .00216 .86587 .15959 .80165 .00190 GRADIENT .00130 -.08019 .00137 .00025 .00001 .00001 .00132 .00004 .00001 .00001 RN/L = 3.21 GRADIENT INTERVAL . .00/ 12.00 ALPHAO = 14.000 ĐΖ CLH CY CN CA CBL, CYN CL CĐ CSL CLN .000 .74154 .00885 .00472 -.02288-.00360 .09700 .72974 .13748 -.00233 .00752 3.000 .75159 .00871 -.00554 -.01966 -.00307 .00582 .73866 .13989 -.00201 .00526 -.02657 -.01576 7.590 .76772 .00794 -.00242 .00416 .75467 .14113 -.00165 .00451 15.000 .78978 .00649 -.04694 -.01295 -.00218 .00327 .77567 .14337 -.00159 .00359 .00504 -.06262 -.0108930.000 .81926 -.00193 .00269 .83594 .14723 -.00144 .00297 45.000 .83812 .00472 -.05574 -.00893 -.00123.00171 .82457 .15019 -.00091 .00193 60.000 .85281 .00473 -.06762 -.00915 -.00008 .00158 .83904 .15274 -.00057 .00181 GRADIENT .00350 -.00013 -.00421 .00094 .00016 -.08038 .00347 .00048 .00003 -.08848

			CY50	747/L	01 \$1	ı	CARRIER DATA		(MGN08	7) (25 NO	v 75 1
	REFERENCE	DATA						ı	PARAMETRIC	DATA	
LREF =	5500.0000 SQ.F 327.7800 IN. 2348.8400 IN. .0300	г. хияр үняр хияр		IN.XC ID IN.YC ID IN.ZC	·			ELV-IB = ELEVON = EETAO = FHI = DX =	.000 5.000 .000 7.500 10.000	ELV-08 = HACH = BETAC = DY = ALPHAC =	3.000 .690 .000 .000
			RN/L =	3.28	GRADIENT 1	NTERVAL -	.00/ 12.00			•	
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 95.000 60.000 GRADIENT	CH .93244 .93315 .93669 .04169 .95051 .95170 .97103 .00059	.00696 .00625 .00579	CLH 10724 09890 09264 09265 09328 07493 07577 .00190	CY014320125301253010510067901027 .00023	00057 00078 00058 00034 .00099 00332 00004	CYN .00304 .00295 .00290 .00201 .00266 .00215 .00269 ~.00002	CL .81891 .81919 .82278 .22781 .83558 .84750 .85571 .00060	CD .15239 .15265 .15264 .15231 .15339 .15591 .15743 00004	CSL .00006 00005 00026 00009 .00013 .00135 .00374 00004	CLN .00308 .00301 .00289 .00287 .00269 .00164 .00207
ALPHAO =	19.000 DZ .000 3.000 7.500 15.000 30.000 95.000 69.000 GRADIE-IT	CN .70855 .77039 .78177 .78594 .81881 .83283 .84599 .00182	CA .00594 .00728 .00632 .00574 .00472 .09470 .09481	CLM .01450 .01700 00141 02192 04295 04933 05425 00228	CY01995018160154601300010300077100890	00251 00196 00268 00194 00164 00077	CYN .00510 .00551 .00437 .00346 .00254 .00135 .00173	CL. .75567 .75742 .76879 .78285 .80555 .81916 .83231 .00181	CD .14029 .14095 .14169 .14285 .14283 .14281 .15164 .00823	CSL 00124 00151 00117 00145 00147 00079 00046	CLN .00542 .00595 .00455 .00377 .00284 .00152 .00103

TABULATED SOURCE DATA - CA2D

CY50 747/1 OI SI CARRIER DATA (MGNOBB) ( 25 NOV 75 ) REFERENCE DATA PARAMETRIC DATA 5500.0000 SQ.FT. XHR? 1339.9000 IN.XC ELV-IB # .000 ELV-08 = 3.000 LREF 327.7800 IN. YHRP .0000 IN.YC ELEVON = 5.000 HACH .600 BREF = 2348.0400 IN. ZHRP 190.8000 IN.ZC BETAO = .000 BETAC .000 SCALE = .0300 PHI 7.500 DY 10.000 DΧ .000 ALPHAC = 4.000 RN/L = 3.34 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000 ΟZ CN CA CLH CY CBL CYN αL CD CSL CLN .000 .42243 .0557B .02193 -.02600 .00489 .00148 .41429 .09963 .00501 .00096 3.000 .42669 .05522 .02276 -.02138 .00433 .08061 .42057 .09973 -08437 .00015 7.500 .44136 .05468 .01216 -.01782 .00355 .00056 .43322 . 10051 .00359 .00018 15.000 .46110 .05360 -.01113 -.01038 .00188 .00275 .45297 .10150 .00216 .00254 30.000 .48937 .05138 -.03722 -.01752 .00044 .00458 .48132 . 10225 .00091 .00450 45.000 .50750 .04955 -.04931 -.01447 -.00035 .00405 .49954 .10233 .00007 .00407 60.000 .52440 .04781 -.05381 -.08955 -.00142 .00292 .51653 .10237 -.00111 .00305 GRADIENT .00255 -.00015 -.00139 .00107 -.00018 -.08011 .00255 S1000. -.08019 -.00010 RN/L = 3.32 GRADIENT INTERVAL = .00/ 12.00 ALPHA0 = 14.888 OZ CN CA CLH CY CBL CYN CL. CO CSL CLN .000 .33018 .05494 .16507 -.04187 .00889 .00211 .32263 -08915 -00936 .00117 3.000 .34330 .05405 . 14467 -.03607 .00753 .00209 -33577 .08964 .00771 .00129 7.500 .36197 .05329 .11717 -.03116 .00556 .00298 .35442 .09084 .00594 .00237 15.000 .39449 .05378 .07115 -.03177 .00269 .00716 .32570 .03472 .00342 -00534 30.000 .44294 .65270 .00925 -.02650 .00014 .00803 .43591 .09972 .00098 .00798 45.000 .47202 .05134 -.01793 -.01972 -.00033 .00596 .46406 .10040 .00029 .00596 60.000 .49317 .04994 -.03512 -.01446 -.00052 .00406 .48526 .10111 -.00009 .00409 GRADIENT .00423 -.00022 -.00635 .00140 -.00043 .00012 .00423 .00023 -.00041 .88017

			CAZO	747/1	01 51		CARRIER DATA		(HGN08	9) (25 N	DV 75 )
	REFERENCE	DATA						(	PARAMETRIC	DATA	
LREF =	5500.0000 SQ.F 327.7600 IN. 2348.0400 IN. .0300	T, XHRP YHRP ZHRP	00	00 IN.XC 00 IN.YC 00 IN.ZC				ELV-IB = ELEVEN = EETAO = PHI = OX =	.008 5.000 .000 7.500 10.000	ELV-OB = HACH = BETAC = DY = ALFHAC =	3.000 .600 .000 10.000 4.900
			RH/L =	3.32	GRADIENT IN	ITERVAL =	.00.12.00				
ALPHAO =	10.080 DZ .000 3.000 7.500 15.000 30.000 95.000 60.000 64ADIENT	CH .44359 .49776 .95793 .47597 .49582 .51280 .53102 .60194	CA .05258 .05268 .05215 .05170 .04981 .04845 .04751 09865	CLH .01473 .01460 .00429 01942 04099 05708 02059 00146	CY 02090 01795 01578 01658 01771 01538 01421 .50067	CSL .0037* .00320 .00259 .0013* 00017 00019 00015	CYN .00087 .00082 .00027 .00237 .00462 .0048 0008	CL .43566 .43980 .44997 .46498 .48789 .50492 .52314 .00193	CD .09866 .09919 .09973 .10095 .10136 .10179 .10278 .00014	CSL .00381 .00322 .00260 .00159 .00031 00033 00072 00016	CLN .80047 .00008 .00000 .00221 .00461 .00442 .00458 00006
ALPHAO =	14.000 DZ ° .000 3.000 7.000 15.000 45.000 69.000 GRADIENT	CN .57863 .53911 .59559 .48155 .45849 .48339 .50223	CA .04836 .04823 .05001 .05056 .04999 .04892 .04792	CLH .14450 .13312 .11289 .05539 .00547 02212 04122 08424	CY 02958 02567 02593 02358 01993 01524 .00044	CBL .00735 .00527 .00465 .00175 .00015 00075 00280 00036	CYN .00018 .00026 .00246 .00246 .00702 .00827 .00842 .00032	CL .37147 .37686 .38819 .41395 .45075 .47563 .49447 .00225	CD .08798 .02911 .09103 .09435 .09764 .09918 .10015	CSL -00733 -00527 -00489 -00255 -00089 -00003 -00033	CLN 00059 60040 .60196 .60753 00531 .00448 .00035



TABULATED SOURCE DATA - CARO

PAGE 577 CA20 747/1 01 51 CARRIER DATA (HGN090) ( 25 NOV 75 ) REFERENCE DAVA PARAMETRIC DATA 1999 - 1999.0000 IN.XC GREF > 5000.0800 SO.FT. ELV-18 -.000 ELV-08 -3.000 LREV - 227.7000 IN. WEED 0 OCCO. ELEVON = 5.000 MACH .600 BRSF = 2340.0400 IN. 2.22 a 190.0000 IN.ZC BETAO -BETAC -.000 .000 CORDS = .0200 PHI 7.500 DY 10.000 DX .000 ALPHAC = 0.000 REU/L = 3.27 GRADIENT INTERVAL = .00/ 12.00 ALTHEO • 10.000 CBL CΔ CLH CY CYN CL CD C5L 23 Cij CLN .000 .GEDEB .00023 -.89314 -.02848 .00154 -.00234 .81434 .15208 .00111 -.00257 3.000 .ezzoz .00734 -.09300 -.01652 .00117 -.00143 .81810 .15171 .00099 -.00161 .00512 -.09337 -.01943 .00029 .00105 .82410 7.530 .83729 .15152 .00047 .00099 15.000 .E+778 .00503 -.10283 -.01756 -.00039 .00202 .83403 .15220 -.00003 .00206 .63259 .00360 -.09765 -.01895 -.00220 .00493 .64989 .15352 -.00131 .00524 E0.000 .67454 .00383 -.09299 -.01489 -.00248 .00352 .66098 . 15571 -.00184 .00369 45.000 60.000 .83614 .00465 -.09028 -.01065 -.00264 .00179 .87164 .15865 -.00229 .60222 CRADIENT .00127 -.00030 -.00032 .00010 -.00017 .00046 .00130 -.00007 -.00009 .00048 RN/L = 3.20 CRADIENT INTERVAL = .00/ 12.00 ALCHAO = 19.088 CLH CY CBL CD DZ CN CA CYN CL CSL CLN .009 .74214 .00770 .01061 -.03399 .08543 -.00133 .72953 .13646 .20512 -.00225 3.000 .74959 .00731 -.00093 -.03285 .00406 .00092 .73693 - 13736 .00416 .00020 7.500 .76497 .00651 -.02359 -.03445 .00201 .08539 .75222 .13924 .00292 .00495 .00510 -.03406 .00878 .77528 15.000 .76814 -.05104 -.00031 .14188 .00122 .00870 30.000 .82152 .0383 -.07189 -.02342 -.00153 .00651 .80837 . 14643 -.00037 .00657 45.000 .84700 .00370 -.07621 -.01815 -.00261 .00502 .83349 .15072 -.00170 .00540 60.000 .65931 .60398 -.09031 -.01407 -.00251 .00332 .84555 . 15314 -.00190 .00371 GRADIENT .00307 -.0001C - 00465 -.00010 -.00046 .00090 .00306 .00038 -.00029 .00097

.00472

-.00014

.86211

.00209

-.07340

-.00377

.00076

.00022

.00209

-.00026

-.00390

~.00039

-.01651

-.00015

.00402

.00070

60.000

GRADIENT

PAGS 579

2,112 01 02											
			CY50	747/1	01 51		CARRIER DATA	L	(MGN89	2) (25 N	OV 75 )
	REFERENC	E DATA						ſ	PARAMETRIC	DATA	
_		2000	- 1770 0	000 IN.XC				ELV-IB =	.000	ELV-08 =	3.000
	500.0000 SQ.			OBD IN.YC				ELEVON =	5.000	MACH =	.600
	327.7800 IN.			080 IN.ZC				BETAO -	.000	BETAC =	5.000
	348.0400 IN.	Zrece	* 150.6	866 IN.2C				PHI =	7.500	DY -	10.000
SCALE =	.0309							DX =	.000	ALPHAC =	4.000
			RN/L =	3.38	GRADIENT IN	ERVAL =	.00/ 12.00				
ALPHAO =	10.000										~
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.080	.42898	.04916	.04184	12967	01218	.02083	.42149	.09373	00994	.02199
	3.000	.43695	.04922	. 63257	12743	01330	.02227	.42941	.09462	01090	.02354
	7.500	.45173	.04883	.00518	12376	01414	.02280	.44416	.09578	01163	.02690
	15.000	.46974	.04737	02267	12356	01553	.02532	.46221	15880.	01280	.02991
	30.080	.49433	.04477	05177	12348	01736	.02824	.48694	09620	01432 01461	.02765
	45.000	.51103	.04371	05909	11714	01742	.02597	.50367	.09899	01401	.02348
	60.000	.52846	.04347	05963	10765	01716	.02180	.52102 .00304	.00027	00023	.02028
	GRADIENT	.00305	00005	00484	.00079	08026	.00025	.002004	.00067	00023	.00020
			RN/L =	3.31	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	14.600						A1=1	~	CD	CSL	CLN
	DŽ	CN	CA	CLH	CY	COL.	CAN	CL .33797	.08564	00676	.02039
	.000	. 34476	.04686	.17410	13812	60885	.01956	.33797	.08311	00826	.02373
	3.000	. 35549	.04620	. 14782	13737	01070	.02274		.08556	01018	.02507
	7.500	.37268	.04686	.11468	13394	01285	.02486	.36574		01221	.02871
	15.000	.46427	. 54799	.06305	13111	01515	.02727	.39704	.08998	01372	.02985
	30.000	,44939	.04689	00193	12528	01676	.02825	.44204	.09352	01372	.02930
	45.000	.47711	.04546	03032	12090	01742	.22763	.46974	.09508	01460	.02732
	60.000	.49664	.04439	04500	11584	01737	.02565	.48928	.09506	00045	.88874
	GRADIENT	.00373	.08081	00788	.00057	00053	.00069	.00371	.00040	00045	-00074

DATE 64 DEC	: 75	TABULA?	TED SOURCE O	ATA - CA	20						_
2			CAED	747/1	01 SI	(	CARRIER DATA		(MGN09)	3) ( 25 NO	v 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF = 3	590.0088 SQ.FT 327.7880 IN. 548.0489 IN. .0300	XMRP YMRP ZMRP	111	10 IN.XC 10 IN.YC 10 IN.ZC				ELV-1B = ELEVON = BETAO = PHI = OX =	.000 5.000 .000 7.500 10.000	ELV-03 = HACH = BETAC = DY = ALPHAC =	3.000 .600 5.000 10.000 4.000
			RN/L =	3.29	GRADIENT INTE	ERVAL -	.00/ 12.00				
ALPHAO =	10.000 02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .45090 .45523 .45429 .47831 .49834 .51280 .52455 .00180	CA .04662 .04669 .04648 .04627 .04341 .04239 .04072 00002	CLM .03107 .02249 0063 02719 05785 06254 06925 00430	11042	CBL0133301404014730159301770017750175700018	CYN .02005 .02110 .02203 .02479 .02807 .02602 .02330 .00026	CL .44355 .44787 .45689 .47096 .49236 .50537 .51742	CD .09350 .09391 .09476 .09502 .09540 .09573 .09533	CSL 01116 01176 01334 01328 01467 01493 01504 00016	CLN .02134 .02246 .02345 .02632 .02977 .02773 .02501 .00028
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .38219 .38724 .40130 .42029 .46130 .48526 .49998	CA .0+165 .0+242 .0+456 .0+491 .0+461 .0+358 .0+280	CLM .16858 .15169 .11909 .05070 00163 03246 04809	12929 12672 12781 12511 12217 11694	CBL 01077 01277 01395 01591 01724 01787 00040	.02317 .02657 .02828 .02806 .02595	CL .37574 .39069 .35444 .41926 .45412 .47854 .49277	.09412 28480.	01487 01505	CLN .01992 .02358 .02449 .02808 .02993 .02978 .02768

TABULATED SOURCE DATA - CA20 DATE 04 DEC 75

60.000 GRADIENT

.85903

.00311

.00065

-.00002

-.11169

-.00648

(MGN094) ( 25 NOV 75 ) CARRIER DATA 747/1 OLSI

.02300

.00063

-.01532

-.00038

.84488

.00307

PAGE 581

-.00027

.00052

.00069

			CVS0	747/1	OI 51	•	WINTER DAIN		******		
									PARAHETRIC	DATA	
	REFERENCE	DATA									
								ELV-18 *	.000	ELV-OB -	3.000
SREF • 5	500.0000 SQ.F	T. XHRP		DO IN.XC				ELEVON =	5.000	HACH =	.600
LREF #	327.7800 IN.	Al#Sp		00 IN.YC				BETAO =	.000	BETAC =	5.000
erer = 2	348.0400 IN.	ZHRP	= 190.80	OD IN.ZC				PHI =	7.500	DY =	10.000
SCALE -	.0300							ox -	.000	ALPHAC =	8.000
			RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000					-00	CYN	CL	CD	CSL	CLN
·,	DŽ	CN	CA	CLH	CY	CBL	.01493	.82975	. 14735	01124	.01714
	.000	.64273	.00103	11936	12150	01405	.01758	.83248	. 14658	01212	.01999
	3.000	.84529	00021	12520	12073	01541 01623	.01969	.83599	. 14627	01256	.02220
	7.500	.84869	00112	12916	11938	01720	.02261	.84287	. 14684	01301	.02525
	15.000	.85555	00175	13498	11971	01728	.02302	.85523	. 14934	01302	.02557
	30.000	.86915	0016!	13256		01728	.02247	.88661	. 15126	01247	.02502
	45.000	.87971	00152	12974	11253	01553	.02210	.87637	. 15384	01169	.02450
	60.080	.88963	00146	12991	11055	00028	.00062	.00083	00014	08017	.00066
	GRADIENT	.08079	00028	00127	.00028	00000	.00052				
			RN/L =	3.28	GRADIENT INT	ERVAL =	.00/ 12.80				
			14172	•							
ALPHAD =	14.000					201	CYN	<b>C</b> L	CD	CSL	CLN
	DZ	CN	CA	CLH	CY	CBL	.02026	.74295	.13082	00889	.02214
	.000	.75438	08019	00306		01260	.02282	,75221	.13241	01000	.02494
	3.000	.76378	00023	02164		01418	.02506	.76599	.13472	01094	.02737
	7.500	. <i>7777</i> 5	00034	65153		01552	.02555	.78525	.13698	01220	.02809
	15.000	.79711	00146	07711		01689	.02533	.81206	.14217	01219	.02764
	39.000	.82441	00100	10036		01681	.02379	.83091	.14651	01177	.02823
	45.000	.84373	00001	10676		01614	.02375	.84489	.14963	01109	.02531

-.11273

.00070

			CV50	747/1	01 51		CARRIER DATA	L.	FRIGARD	3) (23)***	
	REFERENCE	- DATA							PARAMETRIC	DATA	
	Marie Programme	- DATA									
SREF - 5	500.0000 SQ.F	T. XHRP	= 1339.90	OB IN.XC				ELV-18 =	.000	ELV-08 -	3.000
	327.7800 IN.	AH455	= .00	00 IN.YC				ELEVON =	5.000	MACH =	.680
	348.0400 IN.	ZHRP	= 190.80	80 IN.ZC				EETAO #	.000	BETAC -	5.000
SCALE #	.0300							PHI =	7.500	DY =	10.000
DUALE "	.0300							DX *	10.000	ALPHAC =	0.000
			RN/L =	3.26	GRADIENT IN	ITERVAL =	.60/ 12.60				
ALPHAO =	10.000			CLH	CY	CBL	CYN	CŁ	CD	CSL	CLN
	DZ	CN	CA	11796	11982	01141	.01681	.62939	. 15019	00832	.01854
	.088	.64226	.00389	~.12010	11947	01174	.01880	.82835	.14980	00829	.02055
	3.000	.64227	.00360 .00296	12277	11940	01230	.02089	.83844	.14943	00849	.02270
	7.580	.64377	.00295	12804	12228	01290	.02435	.83770	. 15091	00848	.02522
	15.000	.65110	.00325	12596	11997	01333	.02535	.64834	.15289	00873	.02728
	30.000	.08280		12430	11694	01245	.02479	.656 <b>97</b>	. 15431	00795	.02657
	45.000	.67065	.00317	12911	11635	01148	.02515	.87418	.15655	00694	.02676
	60.000	.09843	.08434	00055	.00005	00012	.00054	.00016	00010	00002	.00055
	GRADIENT	.00014	00013	00005	.0000	-,00012	10000				
			RN/L □	3.25	GRADIENT I	NTERVAL -	.00/ 12.00				
ALPHAO =	14.000						<b>2</b> 041	<b>~</b> 1	CD	CSL	CLN
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	. 13554	80943	.02273
	.000	.78593	.08007	08423		01323	.02075	.77398	.13554	00991	.02609
	3.600	.78849	08016	08946		01429	.02397	.77653		01075	.02789
	7.500	.79839	00070	04647			.02560	.76669	.13900	01075	.02913
	15.080	.60553	00008	05355		01539	.02886	.79729	.14052		.02863
	30.000	.82551	.00290	08094			.02677	.81257	.14622	00823	
	45.000	.83833	.08501	08943	11915	01212	.02591	.02473	. 15051	00746	.02752
			ADEOL.	- 00057	_ 11675	- 01096	.02516	.03619	.15347	00642	.02668

-.0001B

.00028

.03519

.00174

.02516

.00053

-.01095

-.00029

-.11635

.00004

.00594

-.00010

.65014

.00175

60.000

GRADIENT

-.09857

-.00499

.00057

DATE 04 DEC 75	TABULA	ITED SOURCE !	DATA - C	0SA					PAC	Æ 583
		CA20	747/1	Q1 S1		CARPIER DATA		(MGN09	6) (25 NO	OV 75 )
REFEREN	CE DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ LREF = 327.7800 IN BREF = 2340.0400 IN SCALE = .0300	. YMRP	00	00 IN.XC 00 IN.YC				ELV-IB = ELEVON = BETAO = PH! = DX =	.000 5.000 -5.000 7.500 .000	ELV-08 = HACH = BETAC = DY = ALPHAC =	3.000 .600 -5.000 10.000 4.000
		RN/L =	3.28	GRADIENT INT	ERVAL -	.00/ 12.00				
ALPHAO * 18.608 DZ .000 3.000 7.500 15.000 30.000 45.006 60.000 GRADIENT	CN .41277 .41980 .43001 .44938 .47875 .49907 .51975 .00230	CA .05032 .05005 .04991 .04896 .04696 .04501 .04314 00005	CLM .01668 .01289 .01289 08407 02636 04002 05310 00057	CY .07585 .07783 .07969 .08133 .09006 .09135 .08732 .00050	CBL .01815 .01829 .01817 .01740 .01763 .01694 .01567 00000	CYN0159601623016130160601935019390176300003	CL .40524 .41227 .42244 .44180 .47122 .49064 .51239 .00229	CD .09319 .09365 .09459 .09567 .09675 .09692 .09723	CSL .01640 .01650 .01639 .01563 .01551 .01402 .01374	CLN 01767 01805 01794 02109 02109 02104 01917 00003
ALPHAO = 14.000 DZ .600 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .33638 .33985 .35238 .39168 .42556 .46171 .48462 .00218	CA .05019 .05031 .05105 .05099 .04948 .04769 .04556	CLH .08752 .10338 .10179 .06972 .01691 01321 03090	.06277 .06776 .07409 .08655 .09051	CBL .02010 .02047 .02045 .01990 .01660 .01720 .01709	CYN0112201060011320120601175017280180900003	CL .32930 .33267 .34509 .37446 .42203 .45419 .47719	CO .08508 .08616 .08760 .09062 .09411 .09569 .09506	CSL .01882 .01925 .01915 .01763 .01529 .01530 .01500	CLN 01326 01269 01340 01398 01342 01698 02076 00003

CARRIER DATA (MGN097) ( 25 NOV 75 )

			CAED	747/1	01 SI		CARRIER DATA	L.	(MGNUE	77) ( 25 N	נ פילי ענ
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5	5500.0000 SQ.F	T. XMRP	• 1339.900	30 IN.XC				ELV-18 =	.000	ELV-03 =	3.000
LREF -	327.7800 IN.	YMRP	= .008	IN.YC				ELEVON -	5.000	MACH =	.600
	2348.0400 IN.	ZMSP	= 190.800	O IN.ZC				PH! =	7.500	ETTAD -	-5.000
SCALE =	.0300							BETAC -	-5.000	DY =	10.000
								DX *	.000	ALPHAC =	8.900
			RN/L =	3.25	GRADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAO .	10.000										
	DZ	CN	CA	CLM	CY	CBL	CYN	CL	CĐ	CSL	CLN
	. 000	.88965	.08484	10280	.07038	.01634	01262	.79651	. 14536	.01385	01558
	3.000	.81389	.00393	10298	.07317	.01658	01335	.80085	. 14520	-01409	01604
	7.500	.01969	.00269	09951	.07560	.01685	01339	.80678	. 14490	.01427	01611
	15.000	.03257	.00108	10046	.08073	.01750	01439	.81974	. 14564	.01473	01721
	30.000	.85185	00114	10320	.08625	.01602	01555	.83911	.14680	.01498	01833
	45.000	.86775	00287	10683	.06847	.01838	01673	.65507	.14765	.01519	01965
	60.000	.68789	00470	11870	.08701	.01916	01632	.87521	. 14955	.01604	01948
	GRADIENT	.00133	00030	.00046	.00069	.00007	00008	.00137	08006	.00005	00007
			RN/L =	3.26	GRADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	€N.	CA	CLM	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.71120	.00557	00474	.05596	.01996	~.01119	.69943	.12899	.01761	01447
	3.000	.72204	.00557	01666	.06046	.01992	01155	.71011	.13097	.01761	~.01483
	7.500	.73737	.06465	02794	.08450	.01935	01159	.72532	. 13282	.01705	01477
	15.000	.76242	.00340	64944	.08785	.01810	01072	.75024	.13582	.01597	01370
	30.000	.80169	.00086	07753	-07898	.01817	01302	.78936	. 14006	.01563	01598
							A . C . C	01000	*****	0.55	0151.7

.08486

.08913

.00112

-.01545

-.01660

-.00005

.01650

.01698

-.80007

.81692

.64352

.80345

.14268

. 14551

.00850

.01554

.01591

-.00008

-.01643

-.01954

-.00004

45.000

60.000

GRADIENT

.82919

.85597

.00348

-.00133

-.00318

-.08010

-.08939

-.10030

-.00305

---

60.000

.00358

-.00003

GRADIENT

---

PAGE 595 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 (HGN099) ( 25 NOV 75 ) CARRIER DATA 747/1 01 51 PARAMETRIC DATA REFERENCE DATA ELV-09 = 3.000 ELV-18 \* .000 XMRP \* 1339.9000 IN.XC SREF = 5500.0000 CQ.FT. .600 5,000 HACH ELEVON -.0800 IN.YC = 327.7800 IN. YHRP = 7.500 BETAO = -5.000 PH! ZMRP 190.8000 IN.ZC BREF # 2348.0400 IN. 10,000 .000 DY BETAC = SCALE = .0300 4,000 .000 ALPHAC = RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00 ALPHA0 = 10.000 CLN CSL CD CBL CYN CL CLH CY CN CA ĐΖ .00309 .09537 .00259 .00335 .38394 -.02871.00225 .39678 .05419 .09691 .000 .00062 .00227 .09623 .00085 .39868 -.02147 .00219 .05403 .08551 3.000 .40656 .80144 .00162 .41704 .09823 .00124 .00197 .05095 -.01912 7.500 .42502 .05410 .00532 .10005 .00007 .00530 .44057 -.02067 -.00049 .05345 .01393 .44862 15.000 .00373 .10182 -.00029 -.00068 .00369 .47164 -.01328 -.02028 .65197 30.000 .47970 .10257 -.00816 .00170 .00169 .49181 -.00027 -.03688 -.00818 45.000 .49984 .05080 .00077 -.00178 .10423 -.00169 .51166 -.00084 .00095 .51975 .05018 -.04769 60.000 -.00013 -.00016 .00039 -.08014 -.00015 .00377 .00122 -.08625 .00379 -.00001 GRADIENT 3.27 GRADIENT INTERVAL . .00/ 12.00 RN/L = ALPHAO = 14.000 CLN CSL CYN CE CD CY CBL CA CLH D2 CN .00370 .00741 .30262 .08459 .00776 .00291 .05249 ,20795 -.05059 .080 .30980 .00590 .00399 .08561 .00325 .00627 .31202 . 19605 -.04301 .31926 .05253 3.080 .00525 .32993 .08725 .00349 .00559 -.03531 .00292 .16818 .33724 .05228 7.500 .00715 .00189 .36693 .09197 .00114 .00731 -.03172 .05311 .10416 15.000 .37453 .01082 .09764 -.00063 -.00176 .01069 .42172 .02328 -.02963 39.000 .42964 .05322 .10048 -.00024 .00500 .45326 -.00076 .00495 -.0159F .05255 -.00752 .46128 45.000 .00007 .00190 .47551 .10163 -.00013 .00169 -.02714 -.08916 .05137 .48353

10200.

-.06537

-.00000

-.00028

.00367

-.00028

.00036

-.00003

			CAEB	747/1	01 51		CARRIER DATA	<b>L</b>	(MGN09	19) (25 N	OV 75 1
	REFERENCE	DATA				PARAMETRIC	DATA				
LREF =	5500.0000 SQ.F 327.7800 IN. 2348.0400 IN.	T, XHEP YMSP ZMSP	00	09 IN.XC 80 IN.YC 80 IN.ZC				ELV-18 = ELEVON = EETAO = PHI = OX =	.090 5.090 ~5.000 7.500 .000	ELV-OB =  MACH =  BETAC =  DY =  ALPHAC =	3.000 -600 -000 19.000 8.000
			RN/L =	3.25	GRADIENT IN	TERVAL -	.00/ 12.00				
ALPHAO =	10.080										
X27 1010	DZ	CN	CA	CLM	CY	CBL	CYN	CL	CD	CSL	CLN
	. 000	.81008	.00991	05498	02240	00027	00144	.79623	.14944	00052	00137
	3.000	.01572	.00819	06669	32372	00103	.00158	.80191	. 14972	00074	.00173
	7.500	.82215	.00718	07543	02402	00181	.00394	.00841	. 14964	00110	.00419
	15.000	. 83574	.00617	08636	02189	00244	.00558	.82197	. 15120	00193	.00592
	30.000	.654 <b>55</b>	.08465	08639	01166	00148	.00237	.84073	. 15317	00105	.00259
	45.000	.87011	.08442	08862	00954	00153	.00181	.65612	. 15545	00119	.00285
	60.000	.69375	.01158	09211	01121	00203	.00256	.68308	. 16747	00155	.00237
	GRADIENT	.80159	00023	00265	00020	00020	.00070	.00161	.00005	00008	.00073
			RN/L =	3.27	GRADIENT IN	TERVAL .	.00/ 12.00				
ALFHAO =	14.608										
	DŽ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.009	.71772	.00913	.05210	03750	.00207	.00089	.70541	.13264	.00219	.00052
	3.000	.72692	.00802	.02944	03582	.00110	.00287	.71418	.13407	.00158	.00264
	7.500	.74526	.00769	00557	03523	.00003	.00630	.73280	.13699	.00112	.00820
	15.000	.77039	.00690	03900	03237	00136	.00657	. 75749	. 14047	.00014	.00657
	30.000	.81104	.00558	07112	02205	00167	.00707	.79775	. 14634	00041	.00725
	45.000	.83749	.00591	07578	01175	00078	.00277	.65289	. 15037	00029	.00226

and the second of the second o

60.000

GRADIENT

.85228

.00371

.03545

-.00006

-.07590

-.00770

~.00957

.00029

-.00055

-.08027

.00212

.00072

.64412

.00366

.15539

.00058

-.00057

-.00014

.00226

.00076

TABULATED SOURCE BATA - CA20

747/1 01 SI

PAGE 597

(MGN100) ( 25 NOV 75 )

CARRIER DATA

	REFERE	NCE DATA							PARAHETRIC	DATA	
SREF = LREF = BREF = SCALE =	5500.0000 S 327.7800 I 2340.0400 I .0300	N. YHRP	0	000 IN.XC 000 IN.YC 000 IN.ZC				ELV-18 = ELEVON = BETAO = PHI = DX =	.000 5.000 -5.000 7.500	ELV-09 = MACH = EETAC = DY = ALPHAC =	3.000 .600 5.000 10.000 4.000
			RN/L =	3.31	GRADIENT INT	FERVAL .	.00/ 12.00				
ALPHAO :	10.000										
	OZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.41337	.04554	.05820	13930	01705	.02808	.46635	.08850	01402	.02971
	3.000	.42285	.04743	.05232	13556	01769	.02847	.41557	.09137	01462	.03017
	7.500	.43614	.04834	.02469	12599	01759	.02665	.42855	.09417	~.01477	.02775
	15.000	.45678	.04871	00688	11791	01750	.02423	.44918	.09819	01487	.02593
	30.000	.48435	.84693	03249	11114	01724	.02340	.47680	.09720	01470	.02507
	45.000	.50339	.04533	05065	10966	01713	.02343	.49589	.09770	~.01459	.02509
	60.000	.52473	.04436	07560	11451	01745	.02526	.51721	.09897	01471	.02695
	GRADIENT	.00303	.00843	00583	.00180	00006	00029	.00297	.00075	00009	00028
			RN/L =	3.28	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO :	- 14.000										
	DZ	CN	CA	CTH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	. 33334	.04624	. 17255	15477	01582	.02962	.32668	.08883	01263	.03111
	3.000	.34323	.04598	. 14757	15083	01652	.03104	. 33655	.08150	01318	.03260
	7.500	.35949	.04625	.11392	14430	01749	.03166	.35269	.08358	01406	.03352
	15.000	.39019	.04649	.06818		01813	.02997	.38298	.08931	01469	.03170
	30.000	.43665	.04876	.09739		01754	.02607	.42916	.05>14	01472	.02778
	45.000	.46702	.04738	02330	11482	01743	.02542	.45951	.05594	01469	.02711
	60.000	.48855	.04609	04204	11244	01742	.02467	.48106	.02820	01474	.02835
	GRAD! ENT	.00350	.00001	00779	.00140	00022	.00029	.00348	.00037	00019	.00031

DATE 04 DE	EC 75	TASULA	NTED SOURCE	DATA - CA	A20					PA	SE 598
			CARO	747/1	01 SI		CARRIER DATA		(HGN10	D (25 N)	3V 75 1
	REFERENC	E DATA							PARAMETRIC	DATA	
LREF +	327.7800 IN. 327.7800 IN. 348.0400 IN. .0300	YMRP	00	88 IN.XC 80 IN.YC 80 IN.ZC				ELV-IB = ELEVON = PHI = EETAC = DX =	.080 5.080 7.500 5.000	ELV-03 = MACH = EETAO = DY = ALFHAC =	3.000 .600 -5.000 10.000 8.000
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.800 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .81795 .81832 .82176 .83128 .64934 .66612 .88716 .00063	CA .00564 .80540 .00460 .00417 .00265 .00193 .00150 ~.80011	CLM 09489 10000 10475 11228 11704 11650 12442 00129	CY12922123911189211259109081059110090 .00137	CBL01463014750149601478015090146901469	CYN .02133 .02160 .0214: .02057 .02170 .02069 .01795 .00001	CL .60455 .60495 .60844 .81793 .83595 .86262 .87342 .00054	CD .14759 .14742 .14742 .14646 .15030 .15230 .15553 00002	CSL 01070 01078 01102 01695 01109 01110 01134 00004	CLN .02354 .02354 .02359 .02359 .02353 .02023
ALFHAO =	14.000 D2 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .73830 .74431 .75769 .77719 .80651 .83025 .85067	CA 00899 .00923 .60132 .00143 .00213 .00161 .00151	CLM 01489 02748 04992 07446 09382 10107 10981 08470	CY 15046 14390 13631 12339 11234 10976 10644 .00201	CBL 01647 01716 01779 01760 01504 01483 00017	CYN .02615 .02642 .02630 .02390 .02170 .02154 .02083 .00002	CL .72725 .73296 .74594 .76514 .79389 .81732 .83749	CD .12723 .12547 .13287 .13637 .14215 .14558 .14920	CSL 01168 01231 01295 01319 01107 01093 00017	CLN .02881 .02990 .02859 .02659 .02412 .02392 .02303



•

DATE 04 DE	C 75	TABULA	TEU SCURCE	DATA - CA	20					PA	SE 589
			CA20	747/1	01 51		CARRIER DATA	•	(HGN18	4) (25 N	OV <b>7</b> 5 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5	5500.0000 SQ.F1	r. XHRP	- 1339.90	00 IN.XC				ELV-18 =	.000	ELV-09 =	3.000
LREF =	327.7800 IN.	YMRP	00	OD IN.YC				EFEADN =	5.000	MACH =	.600
BREF = 8	2348.8400 IN.	ZHRP	<b>=</b> 190.80	00 IN.ZC				PH! =	.008	EETAO =	-5.000
SCALE =	.0300							EETAC =	-5.000	DY =	.000
								DX =	10.000	ALPHAC =	4.000
			RN/L =	3.30	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.43911	.04572	.05549	.11078	.01363	01975	.43193	.09137	.01149	02107
	3.000	.43774	.04611	.05821	.11166	.01498	02332	.43052	.09162	.01246	02476
	7.500	.45082	.04657	.02805	.10626	.01506	02202	.44269	.09335	.01268	02347
	15.000	.46475	.04649	.00041	.10423	.01541	02233	.45734	-09481	.01299	02382
	30.000	.48756	.04485	02777	.10164	.01613	02262	.48020	.09557	.01358	02419
	45.000	.50408	.04373	04420	.10159	.01691	02309	.49575	.09518	.01430	02472
	60.000	.52211	.04244	06259	.10160	.01759	02379	.51463	.09678	-01500	02550
	GRADIENT	-00155	.00011	00390	00065	.03018	09026	.00153	.00027	.00015	00027
			RN/L =	3.29	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	CN	CA	CLM	CY	CBL	CYN	CL_	CD	CSL	CLN
	.080	.36442	.04371	. 16874	.09999	.01092	01310	.35786	.08155	.00949	01417
	3.000	.35852	.04381	. 17448	.10880	.01333	02079	.36202	.08210	.01108	02207
	7.500	.38189	.04511	.14217	.10785	.01476	02265	.37509	.06+78	.01232	02407
	15.080	.40755	.04671	.08567	.10268	.01534	02156	.40043	.06905	.01300	02305
	30.000	.44475	.04696	.02135	.09533	.01490	01984	.43741	.09310	.01283	02049
	45.000	.470B3	.04546	01059	.10005	.01640	02244	.46350	.09442	. 01397	02403
	60.000	.48845	.04430	03062	.10014	.01692	02304	.48115	.09512	.01432	02467
	GRADIENT	.00233	.0000	00529	.00095	.00050	00120	.00235	.00044	.00037	00125

<u>and the state of </u>

DATE OF DE	C 13		·	_							
			CV50	747/1	O1 S1	(	CARRIER DATA	•	(HGN10	5) (25 N	DV 75 1
	REFERENC	E DATA						1	PARAMETRIC	DATA	
LREF -	500.0000 <b>5</b> 0.1 327.7800 IN. 340.0400 IN.	AHIS <sub>D</sub>	= .08	00 IN.XC 00 IN.YC 00 IN.ZC				ELV-IB = ELEVON = PHI = EETAC = DX =	.000. 5.000 000. -5.000	ELV-OB # MACH = EETAD = DY = ALFHAC =	3.808 .608 -5.000 .000 8.000
			RN/L □	3.26	GRADIENT IN	TERVAL =	.00/ 12.00				
ALFHAO =	10.000										
ALPHAU -	DZ	CN	CA	CLM	CY	CBL	CAM	CL.	CD	CSL	CLN
	.080	.03539	00120	09974	.10396	.01486	01734	.02290	. 14329	.01163	01955
	3.000	.03611	60155	10262	. 10074	.01547	01798	.82357	. 14366	11510.	02040
	7.500	.84044	00160	10743	.09543	.01519	01636	.02795	. 14436	.01212	01875
	15.000	.64697	00239	10299	.09277	.01562	01673	.83452	. 14472	.01248	01919
	30.000	.66436	08421	16980	.09576	-01746	0t928	.65196	. 14595	.01365	02202
	45.000	.87792	00474	10589	.09302	.01779	01827	.66541	. 14778	.01435	02108
	60.000	.89387	00579	10849	.09283	.01877	01870	.63159	. 14952	.01554	02169
	GRADIENT	.00070	00005	00103	00114	.00004	.00015	.00069	.00007	.00008	.00014
			₩. •	3.32	GRADIENT IN	ITERVAL =	.00/ 12.00				
ALPHAO =	14.080					CBL	CYN	CL	CD	CSL	CLN
	DZ	CN	CA	(	CY	.01437	02011	.75501	.13112	.01089	02230
	.608	.76531	- 00 🗦	0 - 58	.1143B	·	-,02821	.75735	.13205	.01153	02459
	3.000	.768 <b>77</b>	001%	.00322	.11205	.01553		.76990	.13450	.01195	02254
	7.500	.78156	00124	02197	.10513	.01575	02052		.13581	.01254	02178
	15.000	.79765	00162	64729		.01613	01927	.76523	.13974	.01237	02115
	30.000	. 82295	00322	- 07463		.01731	01915	.81101	.14253	.01425	02165
	45,000	.84382	00406	09812		.01760	01688	.83170		.01480	02155
	69.000	.85076	00473	09475		.01832	01836	.64651	.14481		00005
	GRADIENT	.00210	.00010	00519	00128	.00017	00002	.00205	.00046	.88017	00003

TABULATED SOURCE DATA - CA2D

			CA20	747/1	01 51		CARRIER DAT	٨	(MGN1)	06) (25 N	9V 75 )
	REFERENCE	DATA							PARAMETRI	DATA	
SREF =	5500.0000 SQ.F	T. XHRP	- 1339.9	000 IN.XC				ELV-18 =	.000	ELV-09 =	3.000
LREF =	327.7800 IN.	YHRP	= .0	800 IN.YC				ELEVON =	5.000	MACH =	.600
BREF *	2348.0400 IN.	ZHRP	= 190.8	880 IN.ZC				BETAO =	-5.000	EETAC =	-5.088
SCALE =	.0300							PHI =	.000	DY =	10.000
								DX =	.000	ALPHAC =	4.000
		RUN NO.	0/0	RN/L =	3.31 GR	NDIENT INTE	RVAL .	00/ 12.00			
ALPHAC	DZ DZ	CN	CA	CLH	CY	CBL	CYN	CŁ	CD	CSL	CLN
10.080	.000	.39858	.04998	-00659	.08354	.02197	01930	.39118	.09137	.01983	02149
10.000	3.000	.40435	.04966	.01280	.08457	.02163	01998	.39695	.09166	.01952	02215
10.000	7.500	.41614	.04931	.00809	.08539	.02095	01976	.40871	.09253	.0:877	02184
10.088	15.000	.43659	.04649	08845	.08374	.01929	01801	.42913	.09386	.01730	01993
10.000	30.000	.46446	.04645	02844	.08615	.01798	01780	.45708	.09475	.01602	01958
10.000	45.000	.48369	.04431	04006	.08908	.01733	01856	.47641	.09463	.01529	02027
10.800	60.000	.50275	.04232	05268	.09189	.01665	01926	.49557	.09464	.01454	04089
	GRADIENT	.00236	00009	00018	.08024	00014	00005	.00236	.08016	00015	00003
			2422	Sv. 5				_			
			CA28	747/1	01 51	,	CARRIER DATA	۸	CHSN1C	)7) (25 N	DV 78 १
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF =	5500.0000 SQ.F	T. XMRP	<b>=</b> 1339.90	BOD IN.XC				ELV-18 =	.000	ELV-09 =	3.000
LREF =	327.7800 IN.	YHRP		DOD IN.YC				ELEVON =	5.000	MACH =	.600
	2348.0480 IN.	ZMRP		000 IN.ZC				PHI =	.000	EETAO =	-5.000
SCALE =	.0300							BETAC -	-5.000	DY =	10.000
								DX =	10.000	ALPHAC =	4.000
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSIL	CLN
	.600	.81795	.00564	09489	12922	01463	.02133	.80455	. 14759	01070	.02354
	3.000	.01832	.00540	10000	12391	01475	.02160	.60455	.14742	01078	.02384
	7.500	.82176	.00480	10475	11882	01496	.02141	.80844			
	15.000	.02178	.00420	11228	11258	01478			.14742	01102	.02368
	30.000	.84934	.00285	11704	16908	01478	.02057	.81793	.14846	01095	.02292
	45.000	.86612	.00193	11850	10591	01492	.02170	.83595	.15030	01109	.02399
	69.000	.89716	.00193	12442	10090		.02068	.85262	. 15230	01110	.02296
	GRADIENT	.00053	00011			01468	.01795	.87342	.15553	01134	.02023
	OWNITH	.00033		00129	.00137	00004	.00001	-00054	00002	08004	.00001

DATE 04 DEC 75 TABULATED SOURCE DATA - CA20 PAGE 592										\$ 532	
			CY50	747/1	01 51		CARRIER DATA		(HGN10	7) (25 NO	V 75 )
	DATA							PARAMETRIC	DATA		
LREF = 327. EREF = 2348.	0808 <b>SQ.FT</b> 7808 IN. 0408 IN. 0300	AH466		00 IN.YC				ELV-18 = ELEVON = FHI = ESTAC = DX =	.000 5.000 .000 -5.000 10.000	ELV-09 = MACH = BETAO = DY = ALPHAC =	3.000 ,600 -5.000 10.000 4.000
			RN/L =	3.27	GRADIENT IN	TERVAL -	.00/ 12.00				•
} 3 4	Z .609 3.609 7.509 5.089 8.080 5.080	CN .73830 .74431 .75768 .77719 .60551 .63025 .65067	CA 60099 .60023 .60132 .60143 .60213 .60161 .60151	CLH 01489 02748 04992 07446 09382 10107 10981 00470	CY15046143901353112339112341087610644 .00201	CBL 01647 01716 01779 01760 01504 01403 01403	CYN .02615 .02642 .02630 .02390 .02170 .02154 .02083 .00002	CL .72725 .73296 .74594 .76514 .79389 .81732 .83749 .00252	CD .12723 .12547 .13237 .13237 .14215 .14595 .14920 .00075	CSL 01169 01231 01295 01319 01181 01107 01093 00017	CLN .02891 .02899 .02699 .02659 .02412 .02382 .02309 .00005
	CA20	747/1	01 51		CAUTILIT DATE	•					
	DATA							PARAMETRIC	: DATA		
LREF = 327. BREF = 2348.	.0800 SQ.FT .7800 IN. .0480 IN. .0300	YMRP YMRP ZHRP	= .00	00 IN.XC 00 IN.YC 00 IN.ZC				ELV-18 = ELEVON = PHI = BETAC = OX =	.008 5.000 .000 -5.008 10.000	ELV-08 = MACH = EETAO = DY = ALPHAC =	3.000 .600 -5.000 10.000 8.000
			RN/L =	3.24	GRADIENT IN	ITERVAL =	.00/ 12.80				•
	.000 32	CN	CA	CLM	CY	CBL	CYN	CL	CD	CSL	CLN

ALPHAG =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .83521 .83560 .83963 .84787 .86279 .87680 .89152 .00064	CA .00058 .00019 00011 00119 00237 00389 00524 00809	CLH 11617 11184 11068 10729 10895 10542 10471 .00069	CY .08294 .08357 .08353 .08451 .08776 .08860 .09051	CBL .01672 .01739 .01747 .01767 .01821 .01835 .01874	CYN0153901608015610156301699016710171500002	CL .82243 .82287 .82709 .83519 .85009 .85416 .87690	CD .14560 .14529 .14573 .14666 .14749 .,14843 .14955	CSL .01380 .01433 .01450 .01469 .01501 .01517 .01547	CLN 01805 01895 01640 01846 01978 01954 02014 00003
----------	--	--	--	--	--	---	---	--	---	---	---

DATE 04 DEC 75	TABULAT	ED SOURCE D	MTA - CAE	0					PAG	E 593
DA16 01 040 10		CV50	747/1	01 51	С	ARRIER DATA		(MGN10E	3) (25 NO	v 75 1
REFERENCE	OLTA						P	ARAMETRIC	DATA	
KEFERENCE	DAIA								514 60 -	3.000
SREF - 5500.0000 SQ.F	T. XHRP	= 1339.900	O IN.XC				ELV-18 =	.000	ELV-08 =	.680
LREF - 327.7800 IN.	YHRP	000	B IN.YC				ELEVON -	5.000 .000	EETAO =	-5.080
BREF - 2348.0400 IN.	ZHRP	= 190.001	D IN.ZC				PHI = BETAC =	-5.080	DY =	10.000
SCALE = .0390							DX =	19.000	ALPHAC =	B.000
		RN/L =	3.26	RADIENT INTE	RVAL -	.00/ 12.00				
ALPHAO = 14.000							<u>.</u> .	en.	CSL	CLN
DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD .13376	.01676	02072
.000	.76380	.00115	01900	.08135	.02010	01750	.75280	.13370	.01676	02089
3.000	.76921	.00139	02475	.08188	.02013	01766	.75630	.13608	.01659	02031
7.500	.719!6	.00079	-,04004	.08208	.01987	01712	.76719	.13902	.01592	01819
15,000	.79660	.00080	05958	.07705	.01849	01318	.78377		.01549	01612
39.000	.82240	00061	07354	.07959	.01805	01318	.81001	. 14221	.01553	01824
45.000	.84346	00220	08629	.08505	.01846	01527	.83103	. 14430	.01533	01953
69.000	.86008	00340	09178	.08800	.01850	01657	.84760	.14600	00002	.00006
GRADIENT	.00208	00005	00285	.00009	00003	.00006	.00205	.00031	0000L	100000
								14211	m ( 25 N	OV 75 )
		CY50	747/1	01 51	(	CARRIER DATA	•	(MGN10	191 ( 65 %	J. 13 1
REFERENCI	F DATA						1	PARAMETRIC	DATA	
							ELV-18 =	.000	ELV-08 =	3.000
SREF = 5500.000D SQ.	FT. XHRP		OO IN.XC				ELEVON =	5.000	MACH =	.600
LREF = 327.7800 IN.	YMRP		BO IN.YC				PHI =	.000	EETAO =	-5.000
EREF - 2348.0400 IN.	ZHRP	<b>-</b> 190.80	DO IN.ZC				BETAC =	.000	DY =	.000
SCALE = .0300							DX =	10.000	ALPHAC =	4.000
		RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 10.000										A
ALPHAO = 10.000 DZ	CN	CA	CLH	CY	CBL	CYN	Ct_	59	CSL	CLN .08631
.000	.43401	.05161	.05332	01493	-,00514	.00580	.42624	.09569	00450	.00831
3.000	.43726	.05239	.05159	01306	00464	.00556	.42939	.09780	00403 00776	18200.
7.500	44894	.05265	.03005	00855	00372	.00324	.44097	.09929	00336	.00251
15.000	.46555	.05229	.00124	00321	00249	.08015	.45753	.10055		00048
30.000	.49117	.05067	02950	00214	00152	08054	.48318	.10173		08057
45.000	.50591	.04959	04692	60249	00083	00075	.49895	.10230	_	00057
60.000	.52460	.04841	05639	00299	00011	00077	.51658	.10298		00037
GRADIENT	.00204	.00013	00323	.00086	.08019	00036	.00201	.00035	.00015	00051
Or (NO 1 Pre)										

CARRIER DATA CA20 747/1 01 S1 (MGN109) ( 25 NOV 75 ) PARAMETRIC DATA REFERENCE DATA ELV-IB -.000 ELV-09 = 3.000 XMRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. HACH .600 ELEVON = 5.000 LREF = 327.7800 IN. YMRP = .0000 IN.YC PHI .000 EETAO = -5.000 BREF = 2348.0400 IN. ZMRP = 190.8000 IN.ZC BETAC = .000 DY .000 SCALE = .0390 DX 10.000 ALPHAC = 4.000 RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00 ALPHA0 = 14.090 CŁ CD CSL CLN CY CBL CYN ÐΖ CN CA CLH .00544 .36217 .04668 .10387 -.01959 -.00703 .00876 .35531 .08428 -.00608 .000 -.08600 .35634 .04783 .17599 -.01522 .00707 .35933 .08585 -.00523 .00766 3.000 -.00482 .08478 -.08430 .00526 .38658 .04991 .14651 -.01028 .37326 .08941 7.500 .05171 .08685 -.00336 -.00302 .08077 .40150 .09:120 -.00292 .00109 15.000 .40914 .09828 -.00153 -.0015B .00025 -.00136 -.00174 .44094 30.000 .44879 .05166 .02037 -.00082 .47518 .05047 -.01033 -.00195 -.00090 -.00092 .46730 .09936 -.00099 45.000 -.02996 -.00356 -.08855 -.00034 .48462 .10072 -.00059 -.00028 .49250 .04951 60.000 -.00056 .00245 .00059 .00023 .00029 -.00853 GRADIENT .00251 .00043 -.00509 .00123 (HGN110) ( 25 NOV 75 ) CARRIER DATA CAED 747/1 01 51 PARAMETRIC DATA REFERENCE DATA ELV-IB = .000 ELV-03 = 3.000 XHRP = 1339.9080 IN.XC SREF - 5500.0000 SQ.FT. 5.000 MACH = .600 ELEVON = YNRP = .0008 IN.YC LREF = 327.7800 IN. .000 **EETAO** -5.000 BREF = 2348.0400 IN. ZHRP = 190.8000 IN.ZC PHI BETAC = .000 DΥ .080 SCALE . .0300 10.000 ALPHAC = 8.000 GRADIENT INTERVAL = .00/ 12.60 RN/L = 3.28 ALPHAO = 10.000CYN CL CD CSL CLN DZ CN CA CLM CY CBL -.00909 ~.60343 .00152 .81962 .15090 -.00312 .00209 .03337 .00528 -.09542 .000 -.00275 .00147 -.08690 -.00297 .00097 .82115 .15079 .83486 .03591 -.09275 3.000 7.500 .84095 .08528 -.09493 -.00503 -.00232 .00039 .62725 .15123 -.00222 .00079 -.0000B -.09556 -.00278 -.00161 -.00036 .83716 .15169 -.00165 .85079 .00401 15.000 .15336 -.00121 -.00017 -.09209 -.00309 -.00116 -.08037 .65103 30.000 .86473 .00325 .07556 .00322 -.08933 -.00283 -.00049 -.00060 .66170 .15521 -.00058 -.00051 45.000

-.00295

.00053

-.68455

.00002

.00301

-.00013

.88763

.00104

60.000

GRADIENT

.00008

.00815

-.00059

-.00015

.67352

.00104

.15710

.00805

-.00034

.00012

-.00069

-.00017

GRADIENT

.00341

TABULATED SOURCE DATA - CA20

PAGE 595 (HGN110) ( 25 NOV 75 ) CARRIER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA 3.000 ELV-IB = .000 EFA-08 = XMRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. ELEVON = 5.000 MACH .600 YHRP .8000 IN.YC LREF = 327.7800 IN. -5.000 EETAO = PHI .000 190.8000 IN.ZC ZMRP BREF - 2348.0400 IN. .000 BETAC = .000 DY SCALE -.0300 9.000 ALPHAC = 10.000 DΧ GRADIENT INTERVAL = .00/ 12.00 3.29 ALPHAO = 14.888 CLN CSL CYN CL CD CBL CLH CY DZ CN CA -.06421 .00571 -.00514 .00489 .75400 .13878 .01097 -.01485 .76664 .00574 .080 .14039 -.00358 .00521 .00451 .76114 -.01263 -.00443 .00607 -.00039 3.000 .77395 .00118 .14170 -.00314 -.00330 .00062 .77252 -.01895 -.00430 .08540 7,500 .78539 -.00236 -.00079 -.00119 .78935 .14362 -.00054 -.00218 -.04306 .00454 15.000 .80131 -.00150 .14668 -.00181 .81387 -.00152 -.00180 .00313 -.03508 -.00084 30.000 .82698 -.00005 .14971 -.00126 -.00370 -.00123 -.00026 .83355 -.07291 .64690 .00269 45.000 .15206 -.00092 .00060 .00043 .84826 -.00101 .00245 -.07868 -.00590 .86178 69.000 -.00063 .00247 .00038 .09014 -.00059 -.00005 -.00399 .00144 .00025 GRADIENT .00259 (HGN111) ( 25 NOV 75 ) 747/1 01 51 CARRIER DATA CA20 PARAMETRIC DATA REFERENCE DATA 3.000 ELV-IB = .000 ELV-09 = XMRP 1339.9000 IN.XC SREF - 5580.0080 SQ.FT. .600 ELEVON = 5.000 MACH = .0000 IN.YC THEF 327.7880 IN. LREF = -5.000 BETAC = .000 BETAO = 190.8000 IN.ZC BREF = 2348.0400 IN. ZHRP 10.000 PHI .000 DY .0300 SCALE = 4.000 ĐΧ .000 ALPHAC = GRADIENT INTERVAL = .00/ 12.00 3.33 0/ 0 RN/L = RUN NO. CSL CLN CĐ CBL CYN CL CA CLH CY PΞ CN ALPHAO -.00551 .00555 -.01626 .00610 -.08500 .37593 .09395 .09060 .05415 .000 .38369 10.000 -.00330 .38591 .09525 .06470 -.00279 -.01619 .00502 .07516 3.000 .39375 .05439 10.000 .00316 .00023 .40132 .09674 .00056 .05426 .05128 -.01888 .00312 .40923 7.500 10.000 .06403 .09799 .00172 -.02034 .00129 .00419 .42464 .01657 .05307 .43255 10.000 15.000 .00427 .45712 .09965 .00058 .00431 -.01594 .00013 -.01989 30.000 .46503 .05132 10.000 .00304 .00305 .47735 .09987 .00025 -.08897 -.03891 -.01187 .48518 .04943 45.000 10.000 -.00008 .00188 -.00028 .00126 .49760 .10028 -.00785 .64770 -.05913 .50536 10.000 60.000 -.00032 .00078 .00339 .00037 -.00040 .08074 -.00525 -.00020 .00001

GRADIENT

.00291

.00038

-.08667

-.08043

-.00032

.00090

.00265

.00069

-.00023

.00093

			CARD	747/1	01 SI		CARRIER DATA	·	CHGN11	2) (25 N	OV 75 )
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF =	5509.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300	T, XHRP YMRP ZHRP	= .00	000 IN.XC 000 IN.YC 000 IN.ZC				ELV-18 = ELEVON = PHI = ESTAC = DX =	.000 5.6°0 .000 .000	ELV-09 = MACH = BETAO = DY = ALPHAC =	3.000 .600 -5.000 10.000 4.000
			RN/L •	3.20	GRADIENT I	INTERVAL =	.00/ 12.60				
ALPHAO =	10.600	•									
	OZ	CN	CA	CLM	CY	CBL	CYN	Cr.	CD	CSL	CL14
	.090	.41681	.05196	.06801	01221	.00399	00403	.40989	.09524	.09354	80442
	3.000	.42154	.65210	.06354	01195	.00315	00271	.41379	.09588	.00282	90302
	7.588	.63512	.05188	.03519	01426		.00046	.42732	.09788	.00187	.00026
	15.000	.45201	.05093	.00744	01645	.00059	.00329	.44421	.09790	.000B¥	.00322
	30.000	.47850	34983	02672	01260	08064	.00290	.47069	.09939	.00028	.80289
	45.000	.49396	.04828	04580	01699	08015	.00255	.48621	.09965	.00012	.00255
	60.000	.5107 <del>9</del>	.64710	06791	00975	00020	.00284	.50306	.10024	.00002	.00205
	GRADIENT	.00249	00001	00439	00029	00029	12080.	.00248	.00025	00022	.00053
			RN/L =	3.24	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	14.688										
	OZ	CN	CA	CLM	CY	CB1.	CYN	CL.	CD	CSL	CLN
	.080	.35961	.04750	.20069	01738		00562	.35267	-08493	.00825	00731
	3.000	.35548	.04835	18459	01733		00450	.35939	.08670	- 98580	00514
	7.500	.39116	.05033	. 15110	02042		.00805	.37381	.08990	.00457	00043
	15.000	.48879	.05141	.09054	02310		.00434	.40118	.09385	.00273	.00487
	30.000	.44973	.05101	.02052	02:169		.00825	.44193	-09774	.00024	.00227
	45.000	.47642	.05018	00889	01632		.00487	.46857	.09970	.00042	.00485
	60.000	.49538	.04921	03078	01232	00003	.00321	.48752	.10072	12000.	.00320

PAGE 597 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 (HGN! 13) ( 25 NOV 75 ) CARRIER DATA CA20 747/1 01 SI PARAMETRIC DATA REFERENCE DATA 3.000 ELV-18 = .000 ELV-0B = 1339.9000 IN.XC XHRP - 5500.0000 SQ.FT. MACH = .600 ELEVON -5.000 .0080 IN.YC YMRP 327,7800 IN. .080 BETAO --5.000 BETAC = ZMRP = 190.8800 IN.ZC 2348.0400 IN. BREF 10.000 .000 DY PHI SCALE -.0300 8.000 ĐΧ .000 ALPHAC = 3.26 GRADIENT INTERVAL = .00/ 12.00 RN/L = 0/0 RUN NO. ÇSL CLN CD CBL CYN CL CY CA CLM DZ CN ALPHAD -.00503 .00591 -.00491 .69898 .13077 -,02825 .00587 .05123 .00914 .000 .70122 14.600 -.00066 .69835 . 13220 .00515 -.00158 .00535 -.02938 .03411 3.000 .71059 .00892 14.000 .00167 .13414 .003B4 .00346 .00251 .71652 .00549 -.02884 .00768 7.500 .72893 14.000 .00535 .00655 .74140 .13718 .00225 .00112 -.02779 -.02975 .00636 14.000 15.000 .75396 .00740 .14171 .00053 .77717 -.00065 .00740 -.05049 -.02430 .00460 30.000 .78997 14.000 .00482 . 14517 S1000. -.00072 .00477 .88053 -,01740 -.06782 .81357 .00395 14.000 45.000 .14780 -.00011 .00372 .00364 .81616 -.07423 -.01382 -.00075 .00383 60.000 .82943 14.080 .00103 .00045 -.00028 .00370 -.00612 -.00006 -.08045 .00097 GRADIENT .00372 -.00020 (MGN114) ( 25 NOV 75 ) CARRIER DATA CAZO 747/1 O1 S1 PARAMETRIC DATA REFERENCE DATA 3.000 ELV-18 -.000 ELV-08 = 1339.9000 IN.XC 5500.0000 SQ.FT. XHRP .600 ELEVON = 5.000 HACH .0880 IN.YC YMRP 327.7800 IN. BETAD = -5.000 .000 PHI ZHRP = 190.6000 IN.ZC BREF = 2348.0400 IN. DY 10.000 BETAC = .000 .0300 SCALE = 8.000 10.000 ALPHAC = DX .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.24 ALPHAC - 10.880 CLN CSL CYN CL CD CLH CY CBL CA DZ .15140 .00011 -.00167.00040 -.00162 .82139 -.07884 -.01513 .83520 .00547 .000 .15113 .00003 .00017 .00019 .82280 .00005 -.01671 .83655 .00596 -.0B155 3.000 .00217 -.00010 .00212 .82781 .15127 -.08617 -.01730 -.00847 .00522 .84150 7.500 .00434 .00422 .03765 .15:69 -.00033 -.01725 -.00108 -.09088 .08412 15.000 .85130 .85059 .15352 -.08084 .00178 .00175 -.01054 -.00035 .66432 .00348 -.09033 30.000 -.000EB .00206 . 15554 -.08054 .00198 .66564 -.00917 .00338 -.08703 .87554 45.000

-.08391

-.00098

.00317

-.00017

.88927

.00025

69.000

GRADIENT

-.00533

-.00015

-.08846

-.00012

.00079

EF000.

.87521

.00088

.15755

-.00001

-.00032

-.00003

.00026

.00051

CAED 747/1 OI SI CARRIER DATA (HGN115) ( 25 NOV 75 )

### REFERENCE DATA

### \_

 SREF
 =
 5500.0000 S0.FT.
 XMRP
 =
 1339.9000 IN.XC

 LREF
 =
 327.7800 IN.
 YMRP
 =
 .0000 IN.YC

 BREF
 =
 2340.0400 IN.
 ZMRP
 =
 190.8000 IN.ZC

SCALE = .0300

## PARAMETRIC DATA

ELV-09 = ELV-IB . .000 .600 ELEVON -5.000 MACH = .000 BETAO = -5.000 PHI 5.000 DY .003 BETAC = 4.000 ALPHAC = 10.000 DX

# RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	16.000 9Z .000 3.000 7.500 15.000 90.000 45.000 60.000 GRADIENT	CN .45644 .45753 .46431 .47635 .49542 .51097 .52713	CA .04469 .04537 .04624 .04573 .04573 .04573	CLM 01888 01685 02372 03236 04240 05373 05514 00072	CY 12697 12294 11648 10650 10030 16449 10777 .00140	C9L 02158 02174 02103 01549 01774 01764 01733 .08098	CYN .02607 .02672 .02525 .02161 .01695 .02107 .02280 09013	CL .44926 .45028 .45594 .46985 .48792 .50343 .51974 .00106	CD .09215 .09295 .09452 .09627 .09728 .09755 .09793	CSL 01874 01693 01828 01713 01828 01935 01485 .00007	CLN .02819 .02855 .02731 .02353 .02860 .02880 .02448 00013
----------	--	--	--	---	---	--	--	--	--	--	--

DATE 04 C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									<del>-</del>
			CVSO	747/1	01 S1		CARRIER DATA		(MGNI 1	5) (25 N	0V 75 )
	REFERENC	E DATA							PARAMETRIC	DATA	
LREF =	5500.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300	YHRP	88	180 IN.XC 180 IN.YC 180 IN.ZC				ELV-18 = ELEVON = PH1 = BETAC = DX =	.000 5.000 .000 5.000 10.000	ELV-08 = HACH = BETAO = DY = ALPHAC =	3.000 .500 -5.000 .500
			RN/L ₽	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	ÐΖ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.40250	.04113	.06355	13163	02249	.02700	.39600	.00298	01955	.02920
	3.009	.40069	.04231	.06951	12880	02300	.02903	.37408	.08396	01984	.03128
	7.500	.40565	.04449	.06525	12020	02233	.02722	.39877	.08665	~.01937	.02540
	15.000	42294	.04677	.03962	16696	02054	.02184	.41573	.09072	01815	.02387
	30.000	.45504	.04721	.00230	09458	01751	.01601	.44761	.09452	01574	.01775
	45.000	,47925	.04574	02152	10179	01747	.01961	.47184	.09559	01532	.02133
	60.000	.49760	.04438	03894	10630	01754	.02168	.49024	.09515	01516	.02359
	GRADIENT	.00047	.00845	.00013	.00156	.00003	00001	.00042	.00050	.00003	00001
	REFERENC	CE DATA	CYSO	747/1	01 SI		CARRIER DATA		(MSN) I		OV 75 I
SREF =	5500.0000 SQ.	FT. XMRP	<b>= 1339.9</b> 0	000 IN.XC				ELV-IB =	.009	ELV-09 =	3.000
LREF =	327.7800 IN.			DOD IN.YC				ELEVON =	5.000	MACH =	.600
	2348.0480 IN.			380 IN.ZC				PHI .	.000	EETAO =	-5.000
SCALE =	.0369							BETAC =	5.000	DY =	.000
JUNEL -	.0300							DX =	10.000	ALPHAC =	8.000
•			RN/L =	, 3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO -	- 10.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	Ci_	CD	CSL	CLN
	.000	.84078	.00251	14276	11979	01752	.02876	.e275 <b>7</b>	. 14847	01355	.02349
	3.000	.64080	.00231	13607	11493	01758	.02070	.62762	.14E2B	01372	.02343
	7.500	.84311	.00232	13120	10945	01719	.01956	.82990	.14658	01353	.02225
	15.000	.84916	.00233	12935	10169	01616	.01784	.63595	. 14975	01882	.02037
	30.000	.66227	.00129	12105	09930	01527	.01731	.84835	.15101	01284	.01970
	45.000	.87596	.08048	12113	10421	01544	.01970	.68259	.15250	01178	.02208
	60.000	.88935	00066	11811	10793	01548	.02165	.87644	. 15387	01141	.02299
	GRADIENT	.00033	00002	.00150	.00150	.00005	00017	.00033	.00003	.00802	00017

			CARR	747/1	01 51		CARRIER DATA		THON! I	B) (25 NO	V 75 1
	REFERENCE	DATA							PARAHETRIC	DATA	
SREF = LREF = BREF = SCALE =	5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300	TT. XMRP YMSP ZMRP	= .00	00 IN.XC 00 IN.YC 00 IN.ZC				ELV-IB = ELEVON = FHI = BETAC = DX =	.000 5.090 .000 5.000	ELV-08 = HACH = BETAO = ALPHAC =	3.600 .600 -5.000 .000 8.600
			RN/L =	3.26	GRADIENT INT	ERVAL =	.09/ 12.00				
ALPHAO :	- 14.000							_			
	DZ	CIN	CA	CLH	CY	CBL	CAN	CL	co	CSL	CLN
	.080	.77558	.CD117	05017	12930	01971	.02461	.76754	.13653	01514	.02765
	3.000	.78137	.00145	062 <del>85</del>	12256	01964	.02469	76925	. 13711	01507	.02763
	7.500	.78713	.00220	- 05766	11172	01845	.02160	.77479	.13885	01443	.02448
	15.000	.79895	.00270	07696	09906 ·	01676	.01690	.78634	.14140	01357	.01955
	30.000	.82288	.00219	08626	09272	01461	.01377	.81000	.14505	01200	.01610
	45.000	.84242	.00089	09737	10135	01540	.01662	.82947	. 14716	01199	.02101
	60.000	.6008	00007	10701	10464	01536	.02017	.84703	. 14928	01162	.02253
	GRADIENT	.00103	.60914	00100	.00235	.00017	00042	.00099	.00031	.00010	00045
			CA20	747/1	01 St		CARRIER DATA		(MGN) I	7) t 25 N	OV 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = LREF = EREF = SCALE =	5500.0000 SO.F 327.7800 IN. 2348.0400 IN. .0300	T. XHRP YHRP ZHEP	00	180 IN.XC 180 IN.YC 160 IN.ZC				ELV-IB = ELEVON = PHI = ESTAC = OX =	.000 5.000 .000 5.000	ELV-08 = MACH = ESTAO = DY = ALPHAC =	3.000 .600 -5.080 10.000 4.000
·		RUN NO.	0/ O	RN/L =	3.29 GRA	DIENT INTE	RYAL = .0	12.00		•	
ALPHA	o DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
10.009	.000	.40316	.04787	06960	12775	01250	.01894	.39595	.08975	01045	.02015
10.000		.46924	.04810	.05900	12642	01403	.02180	.40197	.09061	01167	.02315
		.42265	.04758	.04035	12603	01553	.02484	.41537	.09150	01265	.02633
10.009	7.500								.09335	01355	.02805
10.000		いりてごつ	ハムマンマ				. [ ] - [ ] - [ ]				
	15.000	.44357	.04723	.00298	12036	01620	.02450	.43531			
10.000	30.000	.47111	.04525	03127	11705	01714	.02510	.48380	.09424	01442	.02675
10.000 10.000 10.000	30.000 45.000				11705 11428						

.00022

-.00048

-.00804

.00263

GRADIENT

TABULATED SOURCE DATA - CA20

			CA20	747/1	01 \$1		CARRIER DATA		CHENT 1	8) (25 )/(	3V <b>7</b> 5 )
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	327.7800 IN. 327.7800 IN. 348.0400 IN. .0390	T. XHRP YHRP ZHRP	<b>= .0</b> 81	30 IN.XC 30 IN.YC 30 IN.ZC				ELV-IB = ELEVON = PHI = BETAC = DX =	.000 5.000 .000 5.000	ELV-09 = HACH = EETAO = DY = ALPHAC =	3.000 .600 -5.000 10.000 4.000
			RN/L =	3.29	GRADIENT INT	ERVAL -	.00/ 12.00				
ALPHAO =	10.000										
	DZ	CN	CA	CLH	CY	CBL.	CYN	CL	CD	CEL	CLN
	.000	44784	.04730	.04446	12284	<b></b> 01296	.01845	.44844	.09395	01096	.01972
	3.000	.45004	.04690	.03879	12454	01441	.02221	.44267	.09369	01201	.02350
	7.500	.46035	.04600	.02033	12562	01568	.02561	.45302	.09387	01292	.02711
	15.000	.47569	.04634	01335	11977	01622	.02447	.46923	.09581	01357	.02893
	39.000	.50023	.04424	04319	11856	01732	.02614	.49287	.09529	01449	.02781
	45.000	.51443	.04333	05440	11382	01726	.02451	.50708	.09565	01489	.02818
	60.000	.53013	.04217	06709	10985	01740	.02353	.92282	.09735	01485	.02522
	GRADIENT	.00172	08018	00329	00036	00036	.00054	.00173	.00001	00026	.00897
			RN/L +	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.008							_		<b>6</b> C1	
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.908	.38625	.03798	. 17753	12769	01056	.01506	.38017	.07815	00892	.01608
	3.600	.38449	.04068	. 17457	12715	01189	.01654	.37814	.08065	00987	.01978
	7.500	.39234	.64371	. 14935	12993	01352	.02462	.38562	.08448	01097	.02591
	15.000	.41670	.04555	.09313		01504	.02705	.41165	.08906	01214	.02647
	30.000	.4568 <b>7</b>	.04539	.08945		01648	.02713	.44963	.09290	01353	.02270
	45.000	.48223	. Ուկկկկ	02182	11870	01700	.02657	.47495	.09+61	01412	.02830
	60.000	.49984	.04378	04042	11483	01784	.02541	.49253	.09578	01429	.02705
	GRADIENT	.00089	.08076	00390	00031	00041	.00128	.00080	.00064	00027	.00131

DATE 04 DEC 75	TABULA	HED SUCHCE	JAIA - LA	£υ						
		CY59	747/1	01 SI		CARRIER DATA		(HGN11	9) (25 NO	IV 75 1
REFERENCE	DATA							PARAHETRIC	DATA	
SREF = 5500.0080 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XHRP YHRP ZHRP	00	00 IN.XC 00 IN.YC 00 IN.ZC				ELV-18 = ELEVON = FHI = ESTAC = DX =	.000 5.000 .000 5.000	ELV-08 = MACH = EXTAO = DY = ALPHAC =	3.000 .600 -5.000 t0.000 8.000
		PN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.88				
ALPHAO = 18.000 DZ .000 3.000 7.500 15.000 50.000 45.000 60.000 GRADIENT	CN .63558 .64038 .63987 .64354 .68055 .87405 .88980	CA .00424 .00343 .00280 .00289 .00085 .00090 .60011 00019	CLM 11132 11324 10794 11654 12181 12187 12254 .00051	CY12006120591174711482113161084610497 .00037	CBL0114901249013390138101509014750151100025	CYN .01720 .01982 .02080 .02161 .02318 .02127 .02074 .00048	CL .82510 .82700 .82653 .83029 .64763 .66061 .87627	CD .14979 .14931 .14650 .14893 .15032 .15265 .15462 00016	CSL 00832 00855 00957 00955 01084 01083 01128 00017	CLN .01694 .02169 .02281 .02383 .02381 .02305 .08080
ALPHAO = 14.800 DZ .000 3.000 7.500 15.800 30.000 45.000 60.000 GRADIENT	CN .77692 .78957 .78905 .80056 .82519 .84443 .85978	CA .60138 .60168 .60100 .60081 .60009 .00002 60005	CLM .00024 01203 03415 05724 08819 09805 10744 00461	CY -,12676 -,12920 -,12885 -,12268 -,11745 -,11321 -,11021 -,80025	CBL 01060 01221 01318 01378 01475 01402 01501 00033	.02423 .02329 .02241	CL .76478 .76853 .77699 .78225 .81662 .83160 .64675	CD .12625 .13659 .13600 .13901 .14339 .14665 .14911	CSL 00771 00846 00854 01032 01085 01089 08015	CLN .01734 .02832 .02675 .02675 .02642 .02562 .02469 .00109

47709

.00279

60.000

GRADIENT

.04526

.00024

.00932

-.00089

PAGE 603 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 (MGN120) ( 25 NOV 75 ) CARRIER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA .000 ELV-IB = .000 ELY-09 = 1339,9000 IN.XC XMRP = SREF = 5500.0000 SQ.FT. HACH .600 5.000 ELEVON = .000B IN.YC YMRP = LREF = 327.7800 IN. .000 PHI PETAO --5.000 190,8000 IN.ZC ZMRP = BREF = 2348.0400 IN. 10.000 DX .000 DY .0300 SCALE = 4.000 BETAC --5.000 ALPHAC = GRADIENT INTERVAL -.00/ 12.00 3.26 RN/L = ALPHAO = 10.000 CLN CD CSL CL CBL. CYN CLH CY CA ĐΖ CN .01255 -.02149 .40149 .09214 -.01942 .09320 .02080 .04523 .04967 .000 .40892 -.C2185 .46575 .09247 .01839 .02058 -.01981 .08396 .04945 .04778 .41418 3.000 -.02099 .07730 .01762 -.01904 .41918 .08393 .01971 .04094 .04897 .42664 7.500 -.01920 .01640 .43726 .09478 .01831 -.01739 .08243 .04856 .02671 .44477 15.000 .01542 -.01965 .09537 .01739 -.01794 .46302 .01316 .08612 .04645 39.000 .47045 .01465 -.02027 -.01853 .48163 .09551 .08902 .01669 .00125 .04474 45.080 .48899 -.02073 .50052 .09621 .01351 .01560 -.01920 .09192 .04336 -.01237 .50784 60.000 .00008 .00016 -.00014 .00239 .00009 -.00015 800006 -.00009 -.00065 .00239 GRADIENT 3.24 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAO = 14.000 CLN CSL CD CL CY CBL CYN CA CLH ÇN DZ -.02118 .08289 .02316 .33003 .02525 -.01864 .07096 .12448 .33689 .04794 .000 .08455 .02286 -.02205 -.01957 .33768 .02485 .04880 .11983 .07479 .34464 3.000 .02173 -.02091 .08697 -.01852 .35059 .07521 .02390 .11759 .35775 .04975 7.500 -.01837 .37669 .09010 .01955 .07373 .02147 -.01621 .39603 .05010 .08697 15.000 .01574 -.01171.09363 .01698 -.01000 .42155 .04751 .06931 .64985 .42902 30.000 -.01595 .01459 .09457 -.01429 .44693 .07908 .01657 .02568 .04713 45.000 .45636

.00759

.00053

-.01985

.00005

.01465

-.00019

.46974

.00275

-.01801

.00003

.01652

-.08020

.09469

.00053

UNIC UT DE											
			, CAZO	747/1	01 51		CARRIER DATA	•	(HGN1S	() (25 N	IV 75 )
	REFERENCE	FRATA							PARAHETRIC	DATA	
	IVES ESTABLISHED										
	5500.0000 SQ.	FT. XMRP	e 1339.90	OX.NE CO				ELV-18 =	.030	ELV-C9 -	מפס.
	227.7800 IN.	YMEP		OP IN.YC				ELEVON =	5.000	MACH =	.ECO
	2548.6400 IN.	Z1458P		DD IN.ZC				EE7AD =	-5.000	FHI =	.500
	.0290	2123	- 155755					DX =	.000	DY =	10.000
STALE =	.0550							EETAS =	-5.000	ALPHAC =	8.000
			RN/L =	3.25	GRADIENT INTE	ERVAL =	.00/ 12.00				
ALFHAO =	10.000	_			CY	CSL	CYN	C1_	CD	CEL	CLN
	DZ	CH	CA	CLM 05950	.07480	.01749	01520	.79164	. 14426	.01459	01801
	.000	.0458	.00460		.07597	.01782	01510	.79567	.14378	.01493	01795
	3.080	.2025	.003+3	06223 05725	.07543	.01775	01417	.60284	.14403	.01502	01704
	7.500	.01555	.00243		.07259	.01757	01418	.81374	.14453	.01434	01703
	15.000	.02555	.00149	05592	.07255	.01025	01595	.83211	.14514	.01520	01683
	ED.600	.64465	COS57	CEE95 CE431	.02551	.01623	01637	.84544	. 19744	.01503	01928
	45.000	.65918	00179	05304	.02539	.01813	01E93	.E5107	. 19884	.01454	01972
	60.000	.67393	00234	05027	.08021	.00003	.00014	.00150	00002	20003.	.00013
	GRADIENT	.00147	00023	.uuucc	.03021	.65000	.050.			-	
			EN/L =	3.24	GRADIENT INT	ERVAL =	.60/ 12.03				
ALPHAD =	14.000							-	<b>6</b> 70	CEL	CLN
	DZ	CN	CA	CLH	CA	CBL	CALI	Ci.	<b>C</b> 9	.01951	02020
	.000	.7(62)	.00529	.00936	.05643	\$8550.	01649	.70521	.13091	.01931	01954
	3.680	.72819	.00553	.00297	.08925	.02233	01600	.71418	.13165 .13347	.01819	01657
	7.500	.74269	.00458	00723	.07021	.02114	01512	.73051		.01705	01682
	15.000	.7893	.00329	02717	.05445	.01902	00257	.75440	.12543	.01755 +3510.	01820
	30.000	.79322	.co:28	03740	.07079	.01753	00991	.78744	. 14014	.01533	01653
	45.000	.82801	00659	64833	.08082	.01799	01371	.81355	.14229		CIESS
	60.000	.E4505	00200	05370	.03493	.01820	01571	.03257	.14477	.01523	01833
	GRADIENT	.00330	00023	00241	.00050	00023	81030.	-00359	.00025	00019	.00056

GRADIENT .00330

-.00023

### TABULATED SOURCE DATA - CA20

PAGE 605 CA20 747/1 01 51 CARRIER DATA (HGN122) ( 25 NOV 75 ) REFERENCE DATA PARAMETRIC DATA # 1339.9000 IN.XC ELV-18 -ELV-0B = .600 SREF = 5500.0000 SQ.FT. XHRP .000 YHRP .0000 IN.YC ELEVON = HACH = .600 327.7800 IN. 5.000 190.8000 IN.ZC BETAG = -5.000 BREF - 2348.0400 IN. ZHRP = PHI .000 .0300 DX .000 DY 10.000 SCALE = BETAC = .000 ALPHAC = 4.800 RN/L = 3.33 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000 DZ CLH ÇY CBL CYN CL CD CSL CLN CN CA .05400 .10848 -.01601 .00449 -.08417 .39306 .09551 .00403 -.00462 .000 .40090 3.000 .41024 .05430 .09457 -.01674 .00329 -.00174 .40232 .09588 .00309 -.00207 7.500 .42477 .05392 .07645 -.01882 .00166 .00149 .41681 .09302 .00181 .00131 .05267 .04654 -.02231 -.60001 .00529 .00054 .00527 15.000 .44555 .43760 .09395 30.000 .47165 .05130 .02025 -.01540 -.00057 .00420 .46370 .10032 -.00013 .30423 .04971 .00342 .00332 45.000 .49164 -.01306 -.00092 .48395 .10085 -.00857 .00340 .04789 -.01452 -.00989 -.00114 .00204 .58529 -.00092 60.000 .51311 .10125 .00215 GRADIENT .00319 -.00002 -.00425 -.00038 -.00039 .00075 .00317 .00032 -.00030 .00079 3.27 GRADIENT INTERVAL = RN/L = .00/ 12.00 ALPHAO = 14.000 CLH CY CEL CYN CL CD CSL DZ CN CA CLN .000 .30977 .05112 .25009 -.02775 .00898 -.08452 .30273 .08322 .00846 -.08544 3.000 .32640 .05165 .21145 -.02497 .00772 -.00322 .31921 .08549 .00734 -.00401 .00589 7.500 .34702 .05214 .17887 -.02654 .00097 .33967 .08813 .00595 .00035 .00324 15.000 .38295 .05255 . 12091 -.02549 .00354 .37536 .09229 .00351 .00328 30.000 .42954 .05188 .05702 -.03028 -.00025 .01844 .42177 .03550 .00024 .01047 45.000 .45924 .05086 .03004 -.01829 -.00841 .00546 .45141 .09558 .00016 .00547 60.000 .48011 .04959 .01309 -.01392 -.00064 .00396 .47230 .09951 -.00023 .00391 GRADIENT .00494 .08013 -.08932 .00012 -.00041 .00075 .00490 .00065 -.00033 .00079

•			CA20	747/1	DI SI		CARRIER DATA	•	(MGN12	3) (25 N	SV 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300	YMRP	00	00 IN.XC 00 IN.YC 00 IN.ZC				ELV-18 = ELEVON = EETAO = DX = BETAC =	.000 5.000 -5.000 .000	ELV-03 = MACH = PHI = DY = ALPHAC =	.000 .600 .000 10.000 8.000
			RN/L =	3.28	GRADIENT	INTERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 63.000	CH .60417 .60803 .81635 .82505 .64407 .85750 .67055 .00164	CA .08905 .00820 .08713 .00599 .00507 .00498 .80489 00025	CLM 02502 02829 03730 04259 04388 04418 80167	CY0218'0234'0236'0236'0141'0130'01602'	500178 500280 500379 500312 500318 000327	CYN 09158 .00069 .00346 .00574 .00273 .00280 .00309 .00067	CL .79038 .79433 .80271 .81147 .83037 .84361 .65548	CD .14855 .14839 .14878 .14917 .15157 .15381 .15599 .00004	CSL 00145 00163 00216 00273 00265 00265 00268	CLN 00135 .00098 .00390 .00531 .00223 .00351 .00361
ALPHAO ≃	14.000 DZ .000 3.000 7.500 15.000 39.000 45.000 69.000 GRADIENT	CN .72295 .73126 .74781 .77041 .80432 .82700 .84416	CA .80847 .00809 .00897 .00829 .00428 .00388 .00437 00020	CLM .05248 .04653 .02284 00554 02922 03504 03953 00528	CY 03009 03070 02963 03219 02573 01770 01519	3 .00365 3 .00152 508072 308244 908234 488274	CYN00303 .00048 .00300 .00755 .00775 .00458 .00378	CL .71050 .71874 .73524 .75779 .79136 .81377 .83058 .00333	CD .13388 .13494 .13672 .13699 .14388 .14743 .15089	CSL .00386 .00389 .00208 .00208 00105 00151 00204 00024	CLN 00376 00005 .00269 .00757 .00805 .00492 .00420

REFERENCE DATA

TABULATED SOURCE DATA - CARD

CA20 747/1 01 S1

PAGE 607

PARAMETRIC DATA

(HGN124) ( 25 NOV 75 )

CARRIER DATA

	REFEREIN	DE DATA					*				
LREF =	5500.0000 SQ 327.7800 IN 2348.0400 IN	YHRP	0	000 IN.XC 000 IN.YC 000 IN.ZC	·	·		ELV-IB ** ELEVON ** BETAO = DX = BETAC =	.000 5.000 -5.000 .000 5.000	ELV-08 = HACH = PHI = DY = ALPHAC =	.000 .600 .600 10.000 4.000
			RN/L =	3.25	GRADIENT INT	ERYAL =	.00/ 12.03				
ALPHAO =	10.000									•	
אם נואט -	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.41821	.04754	.09127	12674	01415	.02073	.41095	.09100	01190	.02209
	3.000	.42327	.04780	.08258	12609	01528	.02297	.41596	.09178	01280	.02444
	7.500	.43496	.04746	.06374	12469	01633	.02480	.42763	.09266	01354	.02637
	15.609	.45517	.04705	.02845	11940	~.01669	.02433	.44776	.09437	01405	.02594
	30.000	.47916	.04515	.00259	11651	01742	.02500	.47182	.09499	01471	.02669
	45.009	.49580	.04352	01019	11399	01769	-02461	.48853	.09511	01502	.02633
	60.600	.51270	.04174	02535	11145	01887	.02421	.50553	.05511	01544	.02596
	GRADIENT	.00226	000002	00371	.00028	00029	.00853	.00225	.00025	00823	.00056
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ .	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.33375	.04473	.21253	13519	00994	.01787	.32724	.07937	08801	.01891
	3.080	.34457	.04479	.18632	13563	01197	.02249	.33800	.08055	00955	.02352
	7.500	.38055	.04592	.15740	13486	01398	.02655	.35379	.08326	01112	.02787
	15.000	.38836	.04783	. I 1488	12804	01515	.02632	.38123	.083!6	01231	.02776
	30.000	.43360	.04713	.04690	12178	01657	.02654	.42630	.09219	013B1	.02814
	45.000	.46247	.04535	.01646	11976	01759	.02700	.45520	.09344	01467	.02859
	60.000	.48201	.04407	00072	11593	01769	.02574	.47476	.09421	01489	.02744
	GRADIENT	.00357	.00015	08728	.00005	00053	.CO114	.00354	.00052	00041	.00119

ORIGINAL PAGE IS OF POOR QUALITY

.02517

.00093

.14819

-00844

.83057

.00255

-.01125

-.00024

DATE 04 DEC 75	TABULA	ATED SOURCE C	DATA - CA	20					PAG	E 603
		CA20	747/1	01 51		CARRIER DATA		(HGN12	5) (25 %)	v 75 )
REFEREN	CE DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ LREF = 327.7800 IN BREF = 2398.0400 IN SCALE = .0300	. YHRP		ID IN.XC				ELV-18 = ELEVON = BETAO = DX = BETAC =	.000 5.000 -5.000 .000 5.000	ELV-09 = MACH = PHI = DY = ALPHAC =	.000 .600 .000 10.000 8.000
		RN/L =	3.23	GRADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAO = 10.000 0Z .000 3.000 7.500 15.000 40.000 45.000 60.000 GRADIENT	CN .81427 .81601 .82022 .82859 .64760 .86069 .87353 .00080	CA .00580 .00521 .00444 .00356 .00173 .00131 .00099 00018	CLH 06280 06013 06415 07337 06013 07911 07754 00033	CY12437122791202911745114171108110735 .00054 GRADIENT INTI	CBL0130101379014440148901572015730156800019	CYN .01851 .02027 .02127 .02218 .02280 .02213 .02135 .00035	CL .80089 .80271 .80699 .81538 .83442 .84739 .86018 .00082	C0 .14711 .14693 .14690 .14739 .14889 .15075 .15269	CSL 00960 01008 01053 01081 01152 01174 00012	CLN .02049 .02235 .02345 .02442 .02519 .02453 .02376 .00038
ALPHAD = 14.000 DZ .000 3.000 7.500 15.000 50.060 45.000	CN .74811 .74675 .75936 .77743 .80261 .82617	CA .00235 .00166 .00222 .00190 .00236	CLH .02055 .01555 00803 03340 05369 06455	CY 13351 13374 13103 12423 11654 11487	CBL 01189 01401 01499 01563 01527	CYN .01655 .02103 .02336 .02349 .02420	CL .72846 .73508 .74744 .76529 .79001 .81332	CD .13084 .13150 .13404 .13587 .14169	CSL 00882 01015 01070 01131 01084 01111	CLN .01835 .02315 .02561 .02595 .02648 .02602

.02264

.00088

-.01545

-.00040

-.11184

.00035

.00169

-.00001

.84378

.00259

45.000

60.000

GRADIENT

-.07095



PAGE 609 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 (MGN126) ( 25 NOV 75 ) CA20 747/1 02 S1 CARRIER DATA PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = -5.080 XHRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. .000 ELV-08 = 3.000 ELV-IB = YHRP .0000 IN.YC LREF = 327,7800.IN. ELEVON -5.000 MACH .600 ZHRP = 190.8000 IN.ZC BREF = 2348.0400 IN. .000 .000 PHI BETAD -SCALE = .0300 .000 DΧ DY .000 GRADIENT INTERVAL = .00/ 12.00 3.28 RUN NO. 0/ 0 RN/L \* CYN CL CD CSL CLN CY ÇĐL ĐΖ CN CA CLH ALPHAO .01608 -.01882 .37899 .08723 .04713 .05444 .10059 .01796 -.01703 .38603 10.000 .000 -.02162 .09970 .01865 -.01978 .38562 .08819 .01648 3.000 .39272 .04749 .04827 10.000 .09806 .01887 -.02077 .39976 .09052 .01660 -.02263 .02577 7.500 .40703 .04824 10.000 -.02070 .42172 .09245 .01635 -.02254 .01862 .42908 .04786 -.00098 .09485 10.000 15.000 -.01956 .01518 .04687 -.02571 .08819 .01714 -.01787 .45110 .09454 10.000 30.000 .45851 .08960 .01687 -.01869 .47044 .09473 .01482 -.02035 ~.03731 10.000 45.000 .47776 .04503 -.02048 .46657 .09462 .01466 -.02214 .09280 .01690 10.600 60.000 .49380 .04324 -.04816 -.00049 .00007 .00283 .00015 -.00391 -.00035 .00012 -.00048 .00280 .00045 GRADIENT CARRIER DATA (MGN1271 ( 25 NOV 75 ) CA20 747/1 02 51 PARAMETRIC DATA REFERENCE DATA 4.000 BETAC = -5.000 ALPHAC = XHRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. ELV-IB = .000 ELY-OB = 3.000 LREF = 327.7800 IN. YHRP .0000 IN.YC ELEVON = 5.000 MACH .698 ZHRP = 190.8000 IN.ZC BREF = 2348.0400 IN. .000 PHI BETAO = .000 .0300 SCALE -DX 10.000 .000 3.34 GRADIENT INTERVAL = .00/ 12.00 0/ 0 RN/L = RUN NO. CD CSL CLN CN CA CLH CY CBL, CYN CL **ALPHAD** DΖ .08724 .01611 -.01959 .01807 -.01788 .40110 .04483 .05026 .10080 10.000 .000 .40802 -.02255 .40555 .08812 .01640 .10165 .01868 -.020B1 10.000 3.000 .41254 .04525 .04322 -.02362 .10046 .01890 -.02176 .41714 .09011 .01653 7.500 .42429 .04601 .02026 10.000 .01647 -.02371 .43269 .09198 -.80157 .09793 .01885 -.02186 .43993 .04624 10.000 15.000 -.02012 -.01841 .45717 .09423 .01533 .04593 -,02593 .09009 .01735 10.000 30.000 ,46452 .09100 .01697 -.01902 .47329 .09447 .01489 -.02069 -.03766 45.000 .48057 .04448 10.000 .48718 .09459 .01474 -.02198-.02032 .09348 .01696 60.000 .49440 .04315 -.04826 10.000 .00005 -.00051 -.00409 -.00006 .00011 -.00050 .00217 .00039 .00220 .08016 **GRADIENT** 

		,	CA20	747/1	02 St	CA	RRIER DATA		(MGN128	1 25 60	v 75 )
	REFERENCE	DATA						F	ARAMETRIC	DATA	
LREF = 3	100.0000 SQ.F1 127.7600 IN. 198.0400 IN. .0300	r. XHRP YHRP	08	D IN.XC DO IN.YC DO IN.ZC				ALPHAC = ELV-1B = ELEVON = EETAO = DY =		ELV-0B = MACH = PHI = DX =	-5.000 3.000 .600 .000
		RUN NO.	0/0	RN/L =	3.32 GRA	DIENT INTER	VAL = .0	0/ 12.00			
ALPHAO 10.000 10.000 10.000 10.000 10.000 10.000	0Z .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .42919 .42230 .44032 .45352 .47264 .48704 .50159	CA .04407 .04374 .04415 .04432 .04461 .04348 .04205 .08002	CLM .02900 .02570 .00801 00948 02983 04983 04983	CY .09990 .10199 .10192 .09890 .09124 .09087 .09237	CBL .01744 .01031 .01662 .01882 .01735 .01693 .01672 .00015	CYN 01776 02095 02249 02222 01903 01593 01970 08061	CL .4223 .42535 .4329 .44640 .46539 .47983 .49445 .00150	CD .08859 .08859 .08954 .09149 .09377 .09415 .09425	CSL .01549 .01602 .01616 .01639 .01927 .01476 .01457	CLN 01949 02275 02407 02059 02134 00062
			CA20	747/1	02 51	C	ARRIER DATA		(MGN12	9) (25 N	OV 75 1
	REFERENCE	· nata							PARAHETRIC	DATA	
LREF =	500.0000 SQ.F 327.7800 IN. 348.0400 IN. .0300		00	000 IN.XC 000 IN.YC 000 IN.ZC				BETAC = ELV-GB = MACH = PHI = DX =	.000 3.000 .000 .000	ELV-IB = ELEVON = EETAO = DY = ALPHAC =	.000 5.000 .000 .000 4.000
			RN/L =	3.31	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 69.000 GRADIENT	CN .40299 .40559 .42776 .45045 .46249 .50166 .52029	CA .05424 .05485 .05433 .05374 .05153 .04976 .04818	CLM .05272 .05516 .03580 .00523 02809 04224 05405	00856 00867 08954 01108 01051 01023	CBL .00035 .0003 .0008 0008 0008 0008 0008	CYN08015 .00033 .00025 .00164 .00259 .00240 .00231	CL .39511 .40061 .41974 .44237 .47445 .49391 .51240 .60339	CD .09508 .09726 .09878 .10093 .10163 .10195 .10230	CSL .00033 .00026 .00017 00003 00027 .00016 00002	

TABULATED SOURCE DATA - CA20

CARRIER DATA 747/1 02 S1

(HGN129) ( 25 NOV 75 )

ELV-18 =

BETAO =

ALPHAC =

DY

PARAMETRIC DATA

.080

.000

.000

3.000 .600

BETAC =

ELV-08 =

HACH

PAGE 611

.000

.000

.000

4.000

5.000

~~~	-	~ 4	•	

SREF	_	5500.0000	SQ.FT.	XHRP	-	1339.9000	IN.XC
LREF	=	327.7800	IN.	YHRP	=	.0200	IN.YC
BREF	-	234B.6409	IN.	ZMRP	=	190.8000	IN.ZC
SCALE	•	.0300					

3.29 GRADIENT INTERVAL = .00/ 12.00

ALPHAD =	14.000 OZ .000 3.000 7.500 15.000 30.000 45.060 60.080 GRADIENT	CN .31293 .32489 .34695 .38464 .43564 .46734 .48855 .00456	CA .05194 .05182 .05296 .05454 .05316 .05154 .05008 .00015	CLH .17708 .16787 .14191 .08646 .02350 00763 02729 00477	CY0071400861009330086301001010560106200028	CBL .00057 .00026 .00007 00040 00058 00053 00007	CYN 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000	CL .30569 .31769 .33942 .37684 .42770 .45940 .48064 .00452	CD .98435 .08549 .08893 .05445 .09841 .10011 .10087	CST. .00048 .0008: .00018 .00010 00022 00031 00004	CLN ~.00065 .00028 .00164 .00099 .00216 .00259 .00257
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	----------------------------------------------------------------------------------	--------------------------------------------	-----------------------------------------------------------------------	---------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	--------------------------------------------------------------------------	-------------------------------------------------------------------------	----------------------------------------------------------------------------

747/1 02 51 CARRIER DATA

(HGN139) ( 25 NOV 75 1

### REFERENCE DATA

SREF	-	5500.0000	SQ.FT.			1339.9000	
LREF	=	327.7800	IN.	YHRP		.0000	
BREF		2348.0400	IN.	ZHRP	•	190.8000	IN.ZC
CCHE	-	.0300					

# PARAMETRIC DATA

BETAC	=	.000	ELV-18	•	.000
ELV-0	8 =	3.000	ELEVON	=	5.000
HACH	=	.600	BETAO	-	.000
PHI	=	.000	DY	-	.000
nv	_	10.000	AT PHAC	=	4.000

### .00/ 12.00 GRADIENT INTERVAL =

TABULATED SOURCE DATA - CA20

PAGE 612

			CAZO	747/1	02 51	(	CARRIER DATA		(MGN13	0) (25 NO	v 75 )
	REFERENCE	E DATA						1	PARAMETRIC	DATA	
SREF = LREF = BREF = SCALE =	5500 0000 50.6 327.7800 IN. 2348.0400 IN. .0300		.08	08 IN.XC 08 IN.YC 00 IN.ZC	·			BETAC = ELV-0B = MACH = PHI = DX =	.000 3.000 .600 .000	ELV-18 = ELEVON = BETAG = DY = ALPHAC =	.000 5.000 .000 .000 4.000
			RN/L =	3.31	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO 4	= 14.000 DZ .000	CN .34889	CA .04667	CLH .19932	CY 08415	CBL .00075	CYN 00179	CL .34210	CD .08288	<b>C</b> SL .00056	CLN 00185
	3.000 7.500 15.000	.35604 .37356 .46435	.04773 .04976 .05165	. 19314 . 15997 . 09474	00633 00803 00849	.00042 70800. 80008	00041 .00082 .00137	.34910 .36631 .39674	.08469 .08953 .09363	.00038 .00015 .00006	00045 .00081 .00137
	30.000 45.000 60.000	.44554 .47292 .49113	.05150 .05841 .84544	.02954 00351 02318	00976 01039 01031	00046 00062 00067	.00222 :00259 •2580	.43772 .46586 .48327	.09779 .09956 .10050	00023 00035 00040	25500. +3500. 66500.
	GRADIENT	.00334	54809.	00541	08051	00009	.00034	.00327	.00076	00005	.00035
			CA20	747/1	os si		CARRIER DATA	١	(MGN13	11) (25 N	V 75 1
	REFERENC	E DATA	CARD	747/1	0S 21		CARRIER DATA		(MGN13		DV 75 1
SREF = LREF = BREF = SCALE =	REFERENC 5500.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300	FT. XHRP YHRP	= 1339.90 = .00	747/1 900 IN.XC 900 IN.YC	02 51		CARRIER DATA				.050 5.050 .000 .000 .000
LREF =	5500.0800 50. 327.7800 IN. 2348.0400 IN.	FT. XHRP YHRP	= 1339.90 = .00	000 IN.XC	02 SI GRADIENT INT		.007 12.00	BETAC = ELV-OB = MACH = PHI =	.000 3.000 600 .600	ELV-IB = ELEVEN = EETAO = DY =	.000 5.000 .000
LREF =	5500.0800 SQ. 327.7800 IN. 2348.0400 IN. .0300	FT. XHRP YHRP	= 1339.96 = 100.80 = 190.80	100 IN.XC 100 IN.YC 100 IN.ZC	CY008330086901010012050120501103			BETAC = ELV-OB = MACH = PHI =	.000 3.000 600 .600	CSL .00025 .00017000300005300038	.000 5.000 .000

\_\_\_\_

PAGE 513 TABLEATED SOURCE DATA - CA20 DATE BY DEC 75 (HGN131) ( 25 NOV 75 ) CARRIER DATA CA20 747/1 02 51 PARAMETRIC DATA REFERENCE DATA .000 ELV-18 = .000 BETAC = 1339.9000 IN.XC SREF - 5500.0000 SQ.FT. XHRP 5.000 ELEVON = 3.000 ELV-08 \* .0000 IN.YC YHRP LREF = 327.7800 IN. .080 .600 EETAO = HACH 190.8000 IN.ZC ZMRP = BREF = 2348.0400 IN. .000 ĐY .000 PHI 4.000 .0300 20.000 ALPHAC # SCALE 2 .00/ 12.00 GRADIENT INTERVAL = 3.30 RN/L = ALPHAO = 14.080 CLN CSL CD CYN CL CBL. CY CLH CA CN -.00056 DZ .00031 .09331 .37404 -.00053 .00036 .18797 -.00708 .04376 .000 .38070 .0001B .00020 .08561 .37949 .00016 .00022 -.09782 .16277 .04547 .38636 .00118 3.000 .00807 .39362 .08945 .00118 -.00905 -.00891 .04781 .15171 .40021 .00220 7.500 .09384 -.00014 .41645 .00217 -.00037 .09597 -.01016 .42399 .04979 .00299 15.000 -.00050 .09735 .45055 .00292 -.08081 -.01155 .04972 .03231 .45826 .00292 30.000 -,00848 .09945 .47239 .00286 -.00079 -.01121 -.00130 .04953 45.000 .48019 -.00059 .00303 .10052 .48754 -.00089 .00296 -.01148 -.02092 .49537 .04901 .00023 60.000 -.00003 53000. .00265 .00023 -.80035 -.00024 -.00500 .08854 .00272 GRADIENT (HGN132) ( 25 NOV 75 ) CARRIER DATA CAZO 747/1 12 50 PARAMETRIC DATA REFERENCE DATA ELV-18 = .000 BETAC -.000 1339,9000 IN.XC SREF = 5500.0880 SQ.FT. XMAP = 5.000 ELEVON = 3.000 EFA-08 = YHRP = .0000 IN.YC .000 327.7800 IN. .600 BETAO = HACH 190.8000 IN.ZC ZHRP # BREF - 2348.0400 IN. .000 .000 DY PHI 8.000 .0380 ALPHAC = .000 SCALE = DX GRADIENT INTERVAL = .00/ 12.00 3.29 RN/L = ALPHAO = 18.080 CLN CSL CD CYN CL CBL ÇY CA CLH .00847 CN -.00037 ÐΖ .14993 .00040 .79920 -.00045 -.01063 -.09768 .00987 .01309 .00127 .000 . 14954 -.00038 .80436 .00118 -.01147 -.00059 -.09763 .00799 .81817 -.00025 .00209 3.000 .15031 .81203 -.08072 .00199 -.01223 -.09719 .00702 .82579 .00265 -.00037 7.500 .19095 .02245 .00274 -.00086 -.09396 -.01237 .00584 .83520 .00301 15.000 .15246 -.00016 .03957 .00293 -.01178 -.00068 -.09022 .00435 .65329 .00275 30.080 .00015 .15397 .00274 .65010 -.00033 -.01079 -.08278 .86392 .00401 .00225 45.000 .00044

.15550

.00005

.00000

.00021

.85753

.00171

.00289

.00021

-.00005

-.00004

-.01112

-.00021

-.07669

.00009

.00423

-.00024

.87150

.00169

60.000

GRADIENT

			CY59	747/1	02 51		CARRIER DATA	<b>A</b>	(MGN) 3	32) (25 N	0V-75 ;
	REFERENCE	E DATA							PARAMETRIC	DATA	
SREF = LREF = EREF = SCALE =	5500.0000 SQ.# 327.7890 IN. 2348.0400 IN. .0300	FT. XHEP YMRP ZMRP	00	000 IN.XC 000 IN.YC 000 IN.ZC				BETAC = ELV-OB = HACH = PH1 = DX L	.000 3.000 .600 .000	ELV-1B = ELEVON = BETAO = DY = ALPHAC =	.000 5.000 .000 .000 8.000
			RN/L =	3.28	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO	= [4.000										
	02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .72748 .73798 .75903 .75204 .81728 .83590 .65568 .00910	.00769 .00799 .00595 .00562 .00379 .00315 .00359	.01735 .00905 01711 04228 65401 07150 07337 06469	eY 01121 01137 01172 01256 01309 01274 01165 00007	0005 0005 0005 0007 00134 00143 00153 0005	CYN .08828 .08833 .00160 .00246 .00332 .00312 .00274 .00017	CL .71506 .72538 .74531 .76918 .80421 .82549 .84202	CD .13409 .12602 .13948 .14133 .14565 .14893 .15222	CSL 80000 00009 00011 00034 00074 00087 00103 00001	CLN .00029 .00026 .00164 .00255 .00360 .00332 .00297
			CAZO	747/1	02 St		CARRIER DATA	L	(MGN13	3) (25 NO	t 57 V
	REFERENCE	DATA							PARAMETRIC	BATA	
SREF = LREF = BREF = SCALE =	5500.0000 SQ.F 327.7800 IN. 2348.6400 IN. .0390	YMRP	60	00 IN.XC 00 IN.YC 00 IN.ZC				BETAC = ELV-OB = MACH = PH1 = DX =	.000 3.000 .600 .000	ELV-IB = ELEVON = BETAO = DY = ALPHAC =	.000 5.000 .000 .000 9.000
			RN/L =	3.32	ORADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO	= 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .82489 .82858 .83501 .84415 .85780 .85766 .87619	CA .00702 .00561 .00595 .00513 .00445 .00509 .00596	CLM 09544 09349 09315 09167 09690 07955 07503	CY 00892 00344 01042 01227 01190 01144 01161 00020	.00049 .00029 .00005 .000031 00034 .00016 .00028	CYN .00023 .00092 .00178 .00201 .00207 .00287 .00311	CL .81114 .81484 .82129 .83044 .84399 .85301 .86187	CD .15016 .15039 .15086 .15164 .15333 .15558 .15792	CSL .00053 .00044 .00037 .00020 .00020 .00056 .00082	CLN .00014 .00085 .00174 .00282 .00280 .00280

GRADIENT

.00073

-.00002

.00143

-.00031

-.000008

.60019

.00073

.08011

-.00005

.00020

### TABULATED SOURCE DATA - CA20

PAGE 615 CA20 747/1 02 St CARRIER DATA (HGN133) ( 25 NOV 75 ) REFERENCE DATA PARAMETRIC DATA 5500.0000 SQ.FT. XHRP = 1339.9000 IN.XC BETAC = .000 ELV-IB = .000 .0000 IN.YC LREF 327.7800 IN. YHRP ELV-OB = 3.600 ELEVON \* 5.000 190.8000 IN.ZC BREF = 2348.0400 IN. ZHRP = MACH .600 BETAO -.600 SCALE = .0300 PHI .000 DY .000 ĎХ 10.000 ALPHAC = 8.000 RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000 DZ CLH CBL CN CA CY CYN CL CD CSL CLN .000 .76256 .00567 .02615 -.01017 -.03017 .00043 .74999 .13800 -.00009 .00045 3.000 .77005 .00605 .01722 -.01049 -.00033 .00105 .75730 .13969 -.00014 .00111 7.500 .78265 .00554 -.08542 -.01126 -.00056 .00180 .76980 .14136 -.00024 .00187 15.000 .79973 .00462 -.02972 -.01265 -.08097 .00264 .78677 .14342 -.00040 .00275 30.000 .82681 .00380 -.05466 -.01395 -.00151 .00356 .81359 .14732 -.00085 .00388 .00375 -.05177 45.000 .84474 -.01316 -.00150 .00325 .15039 .83126 -.00091 .00346 -.06557 60.000 .85727 .00413 -.0:282 -.00148 .00321 .84353 .15293 -.00090 .00342 GRADIENT .00269 -.00002 -.00427 -.00015 -.00005 .0001B .00265 .00044 -.00002 .00019 CYSO 747/1 02 SI CARRIER DATA (HGN134) ( 25 NOV 75 ) REFERENCE DATA PARAMETRIC DATA 5500.0000 SQ.FT. XHRP = 1339,9000 IN.XC BETAC # .000 .080 ELV-18 = LREF 327.7800 IN. YHRP = .0000 IN.YC ELV-OB = 3.000 ELEVON -5.000 BREF \* 2348.0400 IN. ZHRP = 190.8000 IN.ZC HACH .680 PETAO = .000 SCALE = .0300 PHI .000 DY .000 DX 20.000 ALPHAC -8.000 RN/L = GRADIENT INTERVAL = .00/ 12.00 3.27 1 ALPHAO = 10.000 DZ CN ÇA CLH CY CBL CYN CL CD CSL CLN .000 .84337 .00534 -.11403 -.01137 -.00066 .00131 .82963 . 15171 -.00043 .00141 -.10538 3.809 .84440 .00570 -.01238 -.00095 .00206 .83059 . 15224 -.00058 .00219 -.00128 7.500 B+872 .00522 -.10275 -.01373 .00276 .83492 .15252 -.00079 .00294 15.000 .85749 .08454 -.10165 -.01480 -.00190 .00348 .84365 .15347 -.00126 .CD376 30.000 .85753 .00599 -.09747 -.01436 -.00153 .00355 .15655 .65331 -.000099 .00376 45.000 .87263 .00721 -.07783 -.01342 -.00005 .00316 .65812 .15653 .00050 .00312 →.07385 60.000 .88152 .00781 -.01225 .00039 .00335 .05577 .16076 .00095 ESECO.

											102 010
			CASC	747/1	02 SI		CARRIER DAT	TA	THON	343 (25)	10V 75 )
	REFEREN	CE DATA							PARAMETRI	C DATA	
SREF = LREF = BRSF = SCALE =	327.7800 IN.	YHRP	0	000 IN.XC 000 IN.YC 000 IN.ZC				ELV-08 = HACH = PHI = OX =	000.8 000.6 000. 000.05	ELV-18 = ELEVCN = ELEVCN = ALPHAC =	.000 5.000 .000 .000 8.000
			RN/L =	3.29	GRADIENT IN	TERVAL =	.00/ 12.00	ı	ر.		
ALPHAO											
	020 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .78538 .76991 .76975 .81332 .83335 .84938 .85685 .60194	CA .00409 .00517 .00551 .00461 .00466 .00479 .00456	CLM .01636 .01344 00280 02592 04599 05172 05767 00264	CY 01147 01275 01428 01531 01615 01399 01377 00037	CBL 00050 00088 00114 00162 00197 00165 00141 00008	.00112 .00204 .00312 .00372 .00425 .00344 .00362	CL .77274 .77701 .78654 .80012 .81958 .83564 .84501	CD .14040 .14226 .74430 .14597 .14930 .15221 .15363 .00051	CSL 00030 00052 00058 00095 00103 00077 00004	CLN .00119 .00216 .00327 .00394 .00462 .00363 .00363
			CAED	747/1	02 51	C	CARRIER DATA	١	(MGN13	5) (25 N	IV 75 I
	REFERENCE	E BATA						i	PARAHETRIC	DATA	
SREF = LREF = BREF = SCALE =	5500.8000 SQ.F 327.7800 IN. 2348.6460 IN. .0390	YHRP	08	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = ESTAO = DY =	4.000 .000 5.000 .000	BETAC = ELV-0B = MACH = FH1 = DX =	-5.000 3.000 .600 .000
		RUN NO.	0/ 0	RN/L =	3.27 GRA	DIENT INTER	TVAL0	10, 12.00			
ALPHA(10.000) 10.000) 10.000) 10.000) 10.000 10.000	0 DZ .080 3.080 7.580 15.000 30.000 45.000 60.000 GRADIENT	CN .33861 .40823 .42110 .43921 .46472 .49325 .50162 .00293	CA .04941 .04961 .04956 .04910 .04743 .04532 .04320 .00802	CLH 02951 03119 03633 04059 04305 05112 05843 00093	CY .08450 .08398 .09158 .07583 .07059 .08050 .09897	CBL .02659 .02567 .02409 .02143 .01739 .01709 .01659	CYN 02371 02268 02065 01653 01141 01557 01905	CL .39126 .40081 .41361 .43167 .45722 .47597 .49435	CD .09081 .09201 .09331 .09474 .09574 .09559 .09540	CSL .02396 .02316 .02180 .01958 .01610 .01537 .01451	CLN 02535 02534 02355 01669 01317 01727 02068 .00044

TABULATED SOURCE DATA - CA20

PAGE 617 CARRIER DATA (HGN136) ( 25 NOV 75 ) CA20 747/1 02 S1 PARAMETRIC DATA REFERENCE DATA -5.000 ALPHAC = 4.000 BETAC -1339.9000 IN.XC SREF = 5500.0000 SQ.FT. XHRP ELV-IB = .000 ELV-09 = 3.000 327.7800 IN. .0000 IN.YC YHRP .600 ELEVON # 5.000 MACH ZHRP 190.8000 IN.ZC 2348.0400 IN. BREF = BETAC = PH! -000 .000 SCALE -.0380 ĐΥ 10.000 DX 10.000 GRADIENT INTERVAL = .00/ 12.00 RUN NO. 0/ 0 RN/L = 3.26 CSL CLN CD CEL, CYN CL CLH CY ALPHA0 DZ CN CA -.02801 -.02550 .42017 .08941 .02251 .04500 -.03387 15120. .02532 .42721 10.080 .000 .4260B .09055 .02215 -.02719 .09075 .02487 -.02473 .04551 -.03499 3.000 .43321 10.000 -.02482 .09185 .02130 .09748 .02377 -.02246 .43530 7.500 .44252 .04585 -.03634 10.000 -.02001 .08856 .02119 -.01790 .44935 -09333 .01920 -.04154 .45664 .04595 10.000 15.000 .01597 -.01452 .46935 .09499 .07436 .01740 -.01277 -.04557 30.000 .47671 .04540 10.000 -.01768 .09476 .01535 .04355 -.05314 .08151 .01712 -.01598 .48492 .49216 10.000 45.000 -.02377 .01888 -.02201 .49937 .09407 .01550 -.06193 .09257 .50546 .04135 60.000 10.000 .00841 .00202 .00032 -.00016 .00043 -.08852 -.00021 .00011 -.00033 GRADIENT .00204 (HGN137) ( 25 NOV 75 ) CARPIER DATA 747/1 02 51 CYSO PARAMETRIC DATA REFERENCE DATA BETAC -.000 ALPHAC = 4.000 XHRP = 1339.9000 IN.XC 5500.0000 SQ.FT. 3.000 ELV-18 = .080 ELV-CB = .0000 IN.YC 327.7800 IN. YHRP = LREF .600 ELEVON -5.000 MACH 2348.6400 IN. ZMRP = 190.8000 IN.ZC BREF = BETAO = .080 FH! .000 SCALE = .0380 .003 10.000 DΧ DY .00/ 12.00 3.35 GRADIENT INTERVAL = 0/ 0 RN/L = RUN NO. CSL CLN CY CBL CYN CL CD CN CA CLH **ALPHAO** DZ -.00549 .37991 .09575 .00293 -.00545 .05551 -.01950 .00945 .38783 .05084 10.000 .000 -.00335 .09593 .00738 -.01909 -.00316 .39072 .39871 .05553 .03978 .00773 10.000 3.000 .00565 -.C0071 .02267 -.02095 .00589 -.00009 .40632 .09793 .05492 7.500 .41433 10.000 S4200. -.02379 .00347 .00380 .42817 .03939 .00395 -.00258 15.000 .43618 .05379 10.000 .00103 .00371 .00877 .45748 .09955 .05128 -.03103 -.02779 .00016 .46539 10.000 30.000 .00580 .47815 .10001 .00030 .00581 -.04719 -.02169 -.00041 45.000 .48599 .04949 10.000 .00525 -.00050 -.01643 -.09116 .00527 .49977 .1004. -.06398 60.000 .50654 .04772 10.000 .00076 .00352 .00029 -.00039 -.00376 -.00021 -.00047 .00072 GRADIENT .00353 -.00008

CA28 747/1 02 S1 CARRIER DATA (MGN138) ( 25 NOV 75 )

	REFERENCE	DATA				٠			PARAMETRIC	DATA	
LREF =	5580.8080 SQ.F 327.7880 IN. 2348.6460 IN.	YHRP	00	80 IN.XC 80 IN.YC 80 IN.ZC				ALPHAC = ELV-1B = ELEVON =	4.000 .000 5.000	BETAC = ELV-08 = MACH =	.000 3.000 .600
SCALE =	.0390							BETAD =	.000	FH1 =	.000
								DA =	10.000	DX =	10.000
		RUN NO.	0/ 0	RN/L =	3.29 GR	ADIENT INTER	VAL0	12.00			
ALPHAO	DZ	CN	CA	CLH	CY	CBL	CYN	C1.	CD	CSL	CLN
10.000	.889	.41778	.05148	.04045	01452	.00788	00579	.41009	.09497	.00723	00658
10.000	3.080	42485	.05192	.03326	01480	.00649	00377	.41709	.09535	.00506	00443
10.000	7.500	.43615	.05184	.01711	01758	.00488	00078	.42834	.09715	.09477	00128
10.600	15.000	.45224	.05143	00569	02141	.00304	.00388	.44439	.09842	.00334	.00265
10.000	30.000	.47718	.04934	03361	02600	.00002	.09807	.46941	.09395	.00055	.00ED3
10.000	45.080	.49473	.04795	04999	02103	00055	.09627	.48700	.09940	.00011	.00630
10.880	60.000	.51699	.0468B	06444	01270	00033	.00223	.50329	.10004	00010	.00225
	GRADIENT	.00246	.08084	00315	08844	00040	.08867	.00244	.02020	00032	.00071
			CAZO	747/1	02 SI	С	ARRIER DATA		(MGN13	9) (25 NO	V 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = !	5500.0000 SQ.F	T. XMRP	<b>= 1339.98</b>	00 IN.XC				ALPHAC =	4.000	BETAC =	5.000
LREF =	327.7800 IN.	YHRP						_			3.000
421-427		100	00	OB IN.YC				ELV-18 =	.000	ELV-08 =	2.000
BREC = 3		ZMRP		OD IN.YC				ELEVON =	.000 5.000	ELV-09 =	.630
	2348.8400 IN. 2380.										
ERA/ = {	2348.0400 IN.							ELEVON =	5.000	MACH =	.630
	2348.0400 IN.				3.25 GR	ADIENT INTER	VAL≂ .U	ELEVON = BETAO =	5.000 .000	MACH = PHI =	.000 000.
	2348.0400 IN. 1980.	2MRP	= 150.88	OD IN.ZC	3.25 GR	adient inter C9L	YAL≂ .I CYN	ELEVON = BETAO = DY =	5.000 .000	MACH = PHI =	.000 000.
SCALE *	2348.0400 IN. 1980.	ZMRP RUN NO.	- 150.80 D/ G	OD IN.ZC				ELEVON = BETAO = DY =	5.000 .000 10.000	MACH = PHI = DX =	.000 .000
SCALE *	2348.0400 IN. .0360 DZ	ZHRP RUN NO.	- 150.80 D/ G	OD IN.ZC  RN/L =  CLM	CY	CBL	CYN	ELEVON = BETAD = DY = CL	5.000 .000 10.000	MACH = PHI = DX =	.600 .000 .000 CLN .01070
ALPHAO	2348.0400 IN. .0360 DZ .000	ZMRP RUN NO. CN .39244	- 150.80 D/ G CA .04990	00 IN.ZC RN/L = CLH .09706	CY 11735	CBL 00709	CYN .01002	ELEVON = BETAO = DY = DO/ 12.00 CL .38507	5.000 .000 t0.000 CO .09065	MACH = PHI = DX = CSL00500	.600 .000 .000 CLN .01070
ALPHAO 10.000 10.000	2348.0400 IN. .0360 DZ .000 3.000	ZMRP RUN NO. CN .39244 .40456	- 150.80 D/ G CA .04990 .04946	RN/L = CLH .09706	CY 11736 11927	<b>C</b> 9L 00709 00938	CYN .01002 .01497	ELEVON = BETAO = DY = DO/ 12.00 CL .38507 .39718 .41344 .43398	5.000 .000 10.000 CD .09065 .09148 .09208	MACH = PHI = DX = CSL00500007760095301164	.690 .000 .000 CLN .01070
ALPHAO 10.000 10.000	0348.0400 IN. .0360 DZ .000 3.000 7.500	ZMRP  RUN NO.  CN .39244 .40456 .42080	- 150.80 0/ 0 CA .04990 .04946	RN/L =  CLH .09706 .05573 .03626	CY 11736 11927 12418	CBL 00709 00938 01186	CYN .01002 .01497 .02072 .02540 .02910	ELEVON = BETAO = DY = OO/ 12.00 CL .38507 .39718 .41344 .43399 .46364	5.000 .000 10.000 CD .09065 .09148 .09208 .09261	MACH = PHI = DX = CSL005000077600953	.630 .000 .000 CLN .01070 .01597 .02185 .02676
ALPHAO 10.000 10.000 10.000	DZ .0300 .0300 .000 3.000 7.500 15.000	ZMRP  RUN NO.  CN .39244 .40456 .42080 .44128	- 150.80 0/ C CA .04990 .04946 .04938	RN/L =  CLM .08706 .06573 .0362600309	CY 11736 11927 12418 12701	C9L 00709 00938 01186 01437	CYN .01002 .01497 .02072 .02540 .02910 .02842	ELEVON - BETAO - DY - OO/ 12.60 CL .38507 .39718 .41344 .43399 .46364 .48253	5.000 .000 10.000 CD .09065 .09148 .09208 .09261 .09313	MACH = PHI = DX = CSL005000077600353011640137901459	.630 .000 .000 CLN .01070 .01597 .02185 .02676 .03071
ALPHAO 10.000 10.000 10.000 10.000 10.000	DZ .000 3.000 15.000 30.000 30.000	ZMRP  RUN NO.  CN .39244 .40456 .42080 .44128 .47083 .48966 .50873	- 150.80 0/ 0 CA .04990 .04946 .04836 .04674 .04416	RN/L =  CLM .09706 .05573 .0352600309042890568807122	CY 11736 11927 12418 12701 12812 12400 12005	CSL 00709 00709 01186 01437 01692 01765 01839	CYN .01002 .01497 .02072 .02540 .02910 .02842 .02778	ELEVON = BETAO = DY =  OO/ 12.60  CL .38507 .39718 .41344 .43398 .46364 .48253 .50166	5.000 .000 10.000 CD .09065 .09148 .09208 .09313 .09352	MACH = PHI = DX = CSL00600007760096301164013790145901538	.630 .000 .000 CLN .01070 .01597 .02185 .02576 .03071
ALPHAO 10.800 10.800 10.000 10.000 10.000	DZ .000 .000 .000 .000 .000 .000 .000 .0	ZMRP  RUN NO.  CN .39244 .40456 .42080 .44128 .47083 .48966	- 150.80 0/ 0 CA .04990 .04946 .04836 .04674 .04416	RN/L =  CLM .09706 .05573 .03626003090428905688	CY 11736 11927 12418 12701 12812 12400	C9L 00709 00938 01186 01437 01692 01765	CYN .01002 .01497 .02072 .02540 .02910 .02842	ELEVON - BETAO - DY - OO/ 12.60 CL .38507 .39718 .41344 .43399 .46364 .48253	5.000 .000 10.000 CD .09065 .09148 .09208 .09261 .09313	MACH = PHI = DX = CSL005000077600353011640137901459	.630 .000 .000 CLN .01070 .01597 .02185 .02676 .03071

DATE 04 DE	EC 75	TABULA	TED SOURCE	DATA - CA	20					PA	GE 619
			CYSO	747/1	02 S1		CARRIER DATA	١	(HGN14	8) (25 N	DV 75 1
	REFERENCE	ATAO							PARAHETRIC	DATA	
SREF = 5	5500.0000 SQ.F	T. XHRP	,	00 IN.XC				ALPHAC =	4.000	BETAC =	5.000
LREF =	327.7800 IN.	YHRP	= .00	OD IN.YC				ELV-1B =	.000	ELV-09 =	3.000
BREF = 2	2348.0400 IN.	ZHRP	= 190.80	100 IN.ZC				ELEVON =	5.000	HACH =	.600
SCALE =	.0300						•	BETAO =	089. 008.01	PHI =	.009 1 <b>0.0</b> 09
		RUN NO.	0/ Q	RN/L =	3.26 G	RADIENT INTE	RVAL = .(	00/ 12.00			
ALPHAO	OZ	CH	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
10.000	.000	,42126	.04734	.07326	10875	00835	.00900	.41400	.09111	00736	.00993
10.000	3.000	.42834	.04740	.05742	11152	01016	.01347	.42104	.09191	00870	.01445
10.000	7.500	.43938	.04654	.03121	11822	~.01249	.01971	.43211	.09222	01036	.02091
10.000	15.000	45654	.04535	00355	12298	01448	.02459	.44930	.09282	01183	.02597
10.000	30,000	.48152	.04291	04323	12569	01709	.02866	.47440	.09301	01400	.03029
10.000	45.000	.49771	.04163	05533	12149	01760	.02769	.49063	.09343	01451	.02939
10.000	60.000	.51203	.04072	06087	11559	01762	.02528	.50497	.09402	01488	.02699
,0,000	GRADIENT	.00242	00011	00562	00128	00055	.00142	.00242	.00014	00040	.00147
	REFERENCE	DATA	CA20	747/1	01 51	ı	CARRIER DATA	<b>.</b>	PARAMETRIC		OV 75 )
SREF * 5	5500.0000 SQ.F	T. XHRP	<b>= 1339.9</b> 0	000 IN.XC				ALPHAC =	4.000	BETAC =	-080
LREF *	327.780D IN.	YMRP	00	OB IN.YC				ELV-1B =	10.000	ELV-08 =	13.000
	234B.0400 IN.	ZMRP	<b>= 190.8</b> 0	000 IN.ZC				ELEVON =	5.000	MACH =	.688
SCALE =	.0300							BETAO =	.080	PH! =	.000
								DX ≖	-000	DY =	.080
			RN/L =	3.26	GRADIENT I	NTERVAL =	.00/ 12.00		•		
ALPHAO =	10.600										
	DZ	CN	CY	CLH	CY	CBL.	CYN	CL	CD	CSL	CLN
	.000	, <del>444</del> 46	.05802	12605	00991		.00088	.43626	.10286	00021	.00091
	3.000	.45141	.05785	13015	00990		.00114	.44321	.1033B	00031	.00118
	7.500	.46430	.05754	13354	01012		.00164	.45607	.1043!	00031	.00168
	15.000	.48455	.05576	18028	01035		.00201	.47631	.10554	00033	.00205
	30.000	.51289	.05492	21574	01079		.00234	.50471	.10648	00062	.00242
	45.000	.53177	.052B3	23216	01091		.00252	.52372	.10E25	00070	.00260
	60.000	.55238	.05078	25263	01102		.00278	.54445	.10622	00086	.00228
	GRADIENT	.00266	00065	00379	00003	00802	.00010	.00266	.00019	00001	.00010

.09366

.00025

.40184

.42154

.00307

.00330

.00351

.00010

-.00065

-.00050

-.00003

.00359

.00010

			CASO	747/1	01 SI	(	CARRIER DATA		(MGN14	1) (25 NO	V 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF = 327 BREF = 2348	1.0600 SQ.F 7.7600 IN. 9.0400 IN. 1.0300	YHRP	= 1339.900 = .000 = 190.800	B IN.YC				ALPHAC = ELV-18 = ELEVON = EETAO = DX =	4.000 10.000 5.000 .000	BETAC = ELV-0B = HACH = PHI = DY =	.009 13.000 .600 .000
	•		RN/L =	3.20	GRADIENT INTI	ERVAL =	.00/ 12.00				
	3.000 3.000 3.000 7.500 15.000 30.000 45.000 60.000 RADIENT	CN .35734 .36180 .39612 .42168 .46735 .49915 .52911 .00391	.05696 .05833 .05682 .05476	CLH .00278 00226 04010 09980 16398 19845 23335 00593	CY0087201014010520094701130011390114800023	CBL .00030 00016 00038 00095 00097 00099 00009	CYN .00801 .00109 .00159 .00151 .00257 .00260 .00263	CL .34967 .35728 .37631 .41355 .45919 .49006 .52108 .00385	CO .09108 .09200 .09600 .10399 .10485 .10565	CSL .00030 00035 00022 00022 00069 00070 00072	CLN 00002 .00110 .00161 .00134 .00265 .00269 .00271
			CAED	747/1	01 51		CARRIER DATA	•	CHGN14	.23 (25 N	3V 75 I
	REFERENCE	DATA							PARAHETRIC	DATA	
LREF = 32	0.0000 SQ.F 7.7800 IN. 8.0400 IN. .0300	T. XMRP YMRP ZMRP		10 IN.XC 10 IN.YC 10 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4.880 -10.800 5.000 .800 .800	9ETAC = ELV-09 * MACH = PHI = DY *	.009 -7.009 .609 .000
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 11	9.000 DZ .000 3.000 7.500 15.000 30.000	CN .32408 .33236 .34702 .36546 .39170	CA .05583 .05575 .05541 .05561 .05360	CLH .36264 .35435 .33766 .31268 .29332	CY 01151 01155 01177 01162 01263	CBL 00040 00056 00074 00085 00118	CYN .00177 .00213 .00250 .00285 .00322	CL .31667 .32492 .33955 .35788 .38421 .40184	CD .08868 .08943 .09055 .09258 .09220	CSL 00022 00034 00055 00064 00065	CLN .00180 .00218 .00257 .00292 .00332

-.01224

-.08004

-.01232 .

.28400

.27349

-.00336

.05211

.05033

-.00006

45.000

60.000

GRADIENT

.40927

.42888

.00307

-.00099

-.00096

+.00009

TABULATED SOURCE DATA - CA20

CA20 747/1 OI SI CARRIER DATA (MGNI42) ( 25 NGV 75 )
PARAMETRIC DATA

### REFERENCE DATA

REFERENCE DATA

		CO FI	. XHRP	_	1339.9000	IN.XC	ALPHAC =	4.080	BETAC	.000
SREF	=	5500.0000 SQ.FT			•		ELV-1B =	-10.000	ELV-OB :	-7.000
LREF	-	327.7800 IN.	YHRP				ELEVON =	5.000	MACH 4	600
BREF	=	234B.0400 IN.	ZHRP	=	190.8000	IN.ZC	<del>4</del> * 5.0	.000	PHI	
SCALE	_	.0300					EETAO =			
JUNEL		10,200					0x =	.000	DY 4	.000

# RN/L = 3.23 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .24699 .25733 .27342 .30512 .34861 .37687 .40505 .00353	CA .05206 .05246 .05375 .05569 .05503 .05372 .05242 .00023	CLH .45588 .43641 .41604 .37688 .33399 .31148 .28893	CY 01070 01166 01281 01186 01295 01277 01238 00028	CBL .00007 00058 00058 00061 00098 00112 00125 00009	CYN .00085 .00180 .00267 .00248 .00342 .00342 .00326	CL .24033 .25059 .26546 .29782 .34118 .36943 .39782 .00349	CD .07716 .07861 .09151 .09663 .09032 .09184 .09335	CSL .00016 00001 00030 00035 00063 00077 00091 00006	CLN .00084 .00181 .00271 .00253 .00350 .00351 .00337
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------	------------------------------------------------------------------------------------	--------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------

CA20	747/1	01 51	CARRIER DATA
------	-------	-------	--------------

# PARAMETRIC DATA

(HGN143) ( 25 NOV 75 )

PAGE 621

-11	-	5500.0000 327.7890 2348.0400 .0300	IN.	XHRP YHRP ZHRP	=	.0000	IN.YC	ALPHAC RUO-U ELEVON BETAO	- - «	-000		=	.000 15.000 .000 .000
SCALE	•	.0500						DX	-	.000	ĐY	=	.000

# RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .39970 .40683 .42291 .44297 .47127 .48878 .50843 .00313	CA .05829 .05841 .05838 .05799 .05612 .05452 .05452	CLM .06220 .05575 .02812 .00518 02209 03501 05085 00467	CY .02995 .03234 .03453 .03539 .03632 .03760 .03867 .00060	CBL .00423 .00433 .00442 .00430 .00409 .00440 .00903	CYN0216502241023360236502389024930249300023	CL .39171 .39979 .41481 .43482 .46319 .48078 .50051	CD .09959 .09941 .10095 .10255 .10347 .10359 .10380	CSL .00201 .00204 .00203 .00169 .00165 .00181 .00186	CLN 02197 02274 02369 02417 02479 02524 00023
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	--------------------------------------------------------------------------	---------------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------------------------------------------	---------------------------------------------	--------------------------------------------------------------------------	--------------------------------------------------------------------------	---------------------------------------------------------------------------	--------------------------------------------------------------------

<del>---</del>

PAGE 622 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 (HGN143) £ 25 NOV 75 1 CARRIER DATA CA20 747/1 OI SI PARAMETRIC DATA REFERENCE DATA .000 ALPHAC \* 4.000 BETAC -SREF = 5500.0000 SQ.FT. XHRP = 1339.9000 IN.XC RUD-L = 15.000 RUD-U = 15.000 YHRP = .0080 IN.YC LREF = 327.7800 IN. .000 5.000 AILRON = ELEVON = ZHRP = 190.8000 IN.ZC BREF = 2348.0460 IN. coo. PHI BETAO = .000 .0300 SCALE = .000 DY .000 DX RN/L = 3.23 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000 CSL CLN CYN CL CD CBL CLH CY DZ CA -.02391 .00276 .08786 .00519 -.02350 .30927 .17199 .03308 .05582 .000 .31662

-.02381 .00260 -.02342 .31791 .08923 .00591 .16070 .03387 .65633 3.000 .32535 .09233 .00250 -.02376 .33693 .03413 -.0233B .13299 .08491 .34459 .05754 7.500 -.02557 .00248 .37103 .09739 .03794 .00597 -.02518 .08185 .37901 .05917 15.880 -.02465 .10106 .00195 .03703 .03444 -.02432 .41717 .05825 .02493 30.000 .42526 .10232 .00195 -.02478 -.02445 .44693 .00446 .03739 .05658 -.08460 45.000 .45489 .00199 -.02500 .47680 .10350 -.02467 -.03441 .03793 .00450 .48482 .05492 69.009 .00002 .00060 -.00003 .00373 .00013 -.00004 .00002 .00023 -.00528 .00377 GRADIENT

CA28 747/1 02 SI CARRIER DATA (MGN144) ( 25 NOV 75 )

PARAMETRIC DATA

# REFERENCE DATA

				1339.9000	IN YO	ALPHAC	= 4.000	BETAC	=	.000
SREF					IN.YC		= 15.000	RUD-L	-	15.000
	327.7800		HRP			ELEVON	<b>= 5.88</b>	AILRO	ŧ =	.000
BREF	2348.0480	IN. Z	HRP I	190.8080	IN.ZC	BETAD	= .000	PHI	=	.000
SCALE 4	.0389					מי	- 000		-	.000

# RN/L = 3.35 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAD =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000	CN .40116 .41183 .42751 .44631 .47439 .49094 .50973	CA .06851 .06855 .06023 .05935 .05720 .05544 .85357	CLH .01473 .00589 01098 02341 03796 04691 05682	CY .02947 .03178 .03413 .03596 .03758 .03911	CBL .00409 .08418 .00439 .60441 .00428 .06448	CYN02120021950230102302024360250902573	CL .39293 .40355 .41919 .43799 .46616 .42282 .50172	CD .10897 .10207 .10330 .10430 .10492 .10477	CSL .00191 .00193 .00203 .00197 .00180 .00192	CLN 02151 02266 02334 02414 02467 02541 02506
	60.000 GRADIENT	.50973 .00356	.05357 .00001	05682 00295	.04059 .00 <b>077</b>	.00461 .00003	02573 00025	.50172 .00354	.10473 .88037	.00000	00025

A .....

TABULATED SOURCE DATA - CA20

(HGN(45) ( 25 NOV 75 1 CA20 747/1 01 St CARRIER DATA PARAMETRIC DATA REFERENCE DATA .000 BETAC = 1339,9000 IN.XC ALPHAC = 4.000 SREF = 5500.0000 SQ.FT. XHRP ELV-18 -.000 ELV-OB = 3.000 YHRP .0000 IN.YC LREF = 327.7800 IN. ELEVON = .000 MACH .600 BREF = 2348.0400 IN. ZMRP 190.8000 IN.ZC BETAD = .000 PHI .880 .0300 SCALE = .000 DY .000 DX 3.37 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAO = 10.000 CLH CY CBL CYN CL CD CSL CLN CA DZ CN .00083 .10852 .00012 -.01770 -.00889 .00004 .00084 .41379 .05793 .008 .42187 .00000 .00113 -.00011 .00113 .42844 .10081 3.000 .42851 .05757 -.02075 -.80904 -.00982 -.00036 .00167 .43279 .10134 -.00019 .00169 .05689 -.03362 7.500 .44094 -.00036 .00247 -.00061 .00242 .45185 .10154 -.04842 -.01030 15.000 ,45982 .05519 .10145 -.00063 .00269 -.0617i -.01069 -.000090 .00261 .47494 30.000 .48277 .05283 .10099 -.00073 .00257 -.00099 .00249 .49140 -.06591 -.01043 .49910 .05074 45.000 .00252 .10065 -.00069 -.01039 -.00114 .00242 .50903 .51660 .04865 -.07189 60.000 -.00004 .00012 -.00218 -.08013 -.00005 .00011 .00255 .00011 -.00014 GRADIENT .00255 GRADIENT INTERVAL = .00/ 12.00 RN/L \* 3.36 ALPHAO = 14.000 CYN CL CD CSL CLN CBL OΖ CN CA CLH ĊY .32953 .08915 .00020 .00049 -.00899 .00015 .08051 .65501 .10071 .080 .33692 .09054 100001 .00123 .33778 .10124 -.00972 -.00011 .00122 .05557 3.000 .34526 .00137 -.00011 -.00025 .00135 .3590B .09417 .36582 .05705 .06779 -.00949 7.500 -.08039 .00161 .39054 .09718 -.00022 .00164 -.00952 .39840 .05692 .02478 15.000 -.00060 .00277 .43339 .09939 -.01754 -.01094 -.00089 .00270 30.000 .44123 .05487 .00260 -.00054 -.03831 -.01050 -.00080 .00253 .45991 .09983 .05269 45,000 .45767 .48544 .10026 -.C004B .00241 -.00072 .00235 -.01006 .49469 .05048 -.05913 60.000 .00400 .00069 -.00004 .0001t .00011 GRADIENT .00465 .00028 -.00463 -.00005 -.00805

			CY50	797/1	01 SI		CARRIER DATA	<b>L</b>	CHGN14	6) (25 N	OV 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	5500.0000 SQ.F 327.7890 IN. 2348.0400 IN. .0300	YHRP	00 - 190.80	000 IN.XC 100 IN.YC 100 IN.ZC				ALPHAC = ELV-IB = ELEVON = EETAO = DX =	4.800 .000 10.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 .000
			RN/L =	3.33	GRADIENT I	NYERVAL =	.00/ 12.00				
ALPHAO =	19.000										
ALPHAU =	18.000 DZ	CN	CA	CLH	CY	CSL	CYN	CL	CD	~~	<i>σ</i>
	.000	.37956	,05286	. 12023	01083		.00131	.37222	.09119	CSL 00031	CLN -00134
	3.000	.38562	.05302	.11125	01111		.00131	.37823	.09195	00031	.00193
	7.500	.39954	.05363	.08657	01158		.00240	.39213	.09394	00059	.00248
	15.000	.42567	.05399	.03360	01129		.00248	.41800	.09887	00054	.00256
	30.000	.45946	.05248	00791	01101		.00258	.45080	.09860	00094	.00269
	45.080	.48017	.65121	03353	01081		.00257	.47254	.09947	00080	25500.
	60.000	.50328	.04930	05957	01067		.00261	.49568	.10032	00075	.00270
	GRADIENT	.00271	.00011	00457	00009	00005	.00015	.00269	.00037	08084	.00015
			RN/L =	3.27	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	OZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.29583	.04868	.23509	00931		.00038	.28930	.07867	.00013	.00037
	3.000	.30457	.05024	.21537	00954		.00081	.29784	.08110	~.00013	.00037
	7.500	.32088	.05111	.18417	01067		.00158	.31399	.08359	00026	.00161
	15.000	.35719	.05445	. 12320	01097		.00210	.34979	.09054	00051	.00216
	30.000	.41014	.05440	.04423	01158		.00277	.40250	.09574	00074	.00286
	45.000	.44429	.05289	.00170	01124		.00279	.43665	.09761	00064	.00287
-	60.000	47836	.05144	04019	01085		.00279	.47072	.09952	00054	.00286
	GRADIENT	.00335	.00031	00680	08019		.00015	.00331	.00065	08005	.00017
					- 40410		150010				.00017

TABULATED SOURCE DATA - CA20

TABULATE	) 200MCE D	AIA - CAC							
	CA20	747/1	01 SI	CA	URRIER DATA		(HGN147	1) ( 25 NO)	75 1
DATA						1	PARAHETRIC	DATA	
						ALPHAC =	4.000	BETAC =	.000
• •							.000	ELV-08 =	3.000
							10.000	MACH =	.300
ZHRP =	190.800	D IN.ZC					.000	PHI *	.000
						DX =	.000	די אם	.000
	RN/L =	1.89	GRADIENT INTE	RVAL -	.00/ 12.00				
				401	CVI	~	CO	CSL	CLN
CN			-						.08144
.35069									.00210
.35625									.00288
.37006							-		.00330
.39227	.04908					-			.00354
.41951	.04849								.00374
.43955	.64718	06914							.00393
.46079	.04603	69712							.00019
.00262	.08013	00578	00007	00087	.00018	.00200	.00000	100000	
	CA20	747/1	OI SI	C	ARRIER DATA	<b>L</b>	(MGN14	8) (25 NC	v 75 )
							PARAMETRIC	DATA	
DATA									
DATA									020
	• 1339.90	5X.NI 60				ALPHAC *	4.000	BETAC -	.020.
T. XHRP		00 IN.XC				ELV-18 =	4.000 .000	BETAC = ELV-03 =	3.000
T. XHRP (	00					ELV-18 = ELEVON =	4.000 .000 10.000	BETAC = ELV-03 = MACH =	3.000 .700
T. XHRP YHRP	00	00 IN.YC				ELV-18 = ELEVON = BETAO =	4.000 .000 10.000	BETAC = ELV-03 = MACH = PH! =	3.000 .700 .000
T. XHRP (	00	00 IN.YC				ELV-18 = ELEVON =	4.000 .000 10.000 .000	BETAC = ELV-03 = MACH =	3.000 .700
T. XHRP (	00	00 IN.YC	GRADIENT INT	ERVAL =	.00/ 12.00	ELV-18 = ELEVON = BETAO =	4.000 .000 10.000	BETAC = ELV-03 = MACH = PH! =	3.000 .700 .000
T. XHRP (	00 - 190.80 - RW/L -	3.54				ELV-18 = ELEVON = BETAO = OX =	4.000 .000 10.000 .000 .000	BETAC = ELV-03 = MACH = PH! =	3.000 .700 .000
T. XHRP YHRP YZHRP Y	00 - 190.80 RN/L =	000 IN.YC 100 IN.ZC 3.54 CLH	CY	CBL	CYN	ELV-18 = ELEVON = BETAO = DX =	4.000 .000 10.000 .000	BETAC = ELV-03 = MACH = PH1 = DY =	3.000 .700 .000 .000
T. XHRP ( YHRP ( ZHRP (	= .00 = 190.80 RN/L = CA .05462	3.54 CLH	CY 00767	CBL 00003	CYN .000+1	ELV-18 = ELEVON = BETAO = DX =	4.000 .000 10.000 .000 .000	BETAC = ELV-03 = MACH = PH! = DY =	3.000 .700 .000 .000
T. XHRP YHRP YZHRP Y	00 - 190.80 RN/L ~ CA .05462 .05526	3.54 CLH .17534 .16290	CY 80767 80774	CBL 00003 00026	CYN .00041 .00085	ELV-18 = ELEVON = BETAO = DX =  CL .37428 .39205	4.000 .000 10.000 .000 .000	BETAC = ELV-03 = HACH = FH! = DY = CSL .00002 00017	3.000 .700 .000 .000
T. XHRP YHRP YHRP Y	00 - 190.80 RN/L = CA .05462 .05526 .05505	3.54 CLH .17534 .16290	CY 00767 00774 00940	CBL 00003 00026 00039	CYN .00041 .00085 .00145	ELV-18 = ELEVON = BETAO = DX =  CL .37428 .39205 .39878	4.000 .000 10.000 .000 .000 .000	BETAC = ELV-03 = HACH = FH! = DY = CSL .00002 00017 00023	3.000 .700 .000 .000 .000 .000
CN .38183 .38969 .40657 .43785	EN/L =  CA .05462 .05526 .05605	3.54 CLH .17534 .16290 .13661	CY 80767 80774 60840 08830	CBL 00003 00026 00039 00061	CYN .00041 .00085 .00145	ELV-18 = ELEVON = BETAO = DX =  CL .37428 .39205 .39878 .42907	4.000 .000 10.000 .000 .000 .000 .09319 .09461 .09705	BETAC = ELV-03 = MACH = PHI = DY = CSL .00002 00017 00023 00044	3.000 .700 .000 .000 .000 CLN .00041 .00077
T. XHRP YHRP ZHRP CN .38183 .39969 .40657	EN/L *  CA .05462 .05525 .05605 .05656	3.54 CLH .17534 .16290 .13661 .07948	CY 80767 00774 00840 08830 00762	CBL 0003 0026 0038 00061 00057	CYN .00041 .00085 .00145 .00165	ELV-18 = ELEVON = BETAO = DX =  CL .37428 .39205 .39878 .42907 .46569	4.000 .000 10.000 .000 .000 .000 .09319 .09461 .09705 .10058	BETAC = ELV-03 = MACH = PH! = DY = CSL .00002 00017 00023 00044 00050	3.000 .700 .000 .000 .000 CLN .00041 .00077
CN .38183 .38969 .40657 .43785	RN/L *  CA .05462 .05525 .05656 .05573 .05443	3.54 CLH .17534 .16290 .13661 .07948 .03072	CY 00767 00774 00840 00830 00762 00898	CBL 0003 0026 0038 00061 00057	CYN .00041 .00085 .00145 .00165 .00168	ELV-18 = ELEVON = BETAO = DX =  CL	4.000 .000 .000 .000 .000 .000 .00319 .09705 .10059 .10349	BETAC = ELV-03 = MACH = PH1 = DY = CSL .00002 00017 00023 00024 00050 00050	3.000 .700 .000 .000 .000 .00041 .00077 .00171
CN .38193 .38969 .40657 .43705 .47497	EN/L *  CA .05462 .05525 .05605 .05656	3.54 CLH .17534 .16290 .13661 .07948	CY 00767 00774 00840 00830 00762 00898 00978	CBL 0003 0026 0038 00061 00057	CYN .00041 .00085 .00145 .00165	ELV-18 = ELEVON = BETAO = DX =  CL .37428 .39205 .39878 .42907 .46569	4.000 .000 10.000 .000 .000 .000 .09319 .09461 .09705 .10058	BETAC = ELV-03 = MACH = PH1 = DY =  CSL .000020001700023000500005000050	3.000 .700 .000 .000 .000 .000 .00041 .00077 .00172 .00172
	DATA  . XIMP = YHRP = ZHRP =   CN .35069 .35625 .37006 .39227 .41951 .43959 .46079	CA20  DATA  . XHRP = 1339.900 YHRP = .000 ZHRP = 190.800  RN/L =  CN	CA20 747/1  DATA  . XMRP = 1339.9000 IN.XC	CAZO 747/1 O1 S1  DATA  . XHRP = 1339.9000 IN.XC	CAZO 747/1 O1 S1 C/  DATA  . XHRP = 1339.9000 IN.XC	CA20 747/1 O1 S1 CARRIER DATA  DATA  . XHRP = 1339.9000 IN.XC	CA20 747/1 O1 S1 CARRIER DATA  . XHRP = 1339.9000 IN.XC . YHRP = .0000 IN.YC . ZHRP = 190.8000 IN.ZC  CN	CA20 747/1 01 S1 CARRIER DATA  PARAMETRIC  PARAMETRIC  ALPHAC = 4.000 ELY-1B = .000 ELY-1B = .000 ELEVON = 10.000 EXTAD = .000 DX = .000  CN	CA20 747/1 O1 S1 CARRIER DATA  PARAMETRIC DATA  ALPHAC = 4.000 EETAC = ELY-1B = .000 ELV-0B = ETAO = .000 IN.YC  ZHRP = 190.8000 IN.ZC  ELEVON = 10.000 MACH = .000 PHI = .000 DX = .000 DY = .0000 DX = .00000  DX = .00000  DX = .00000   DX = .000000 DX = .0000000 DX = .00000000 DX = .0000000000 DX = .00000000000000000000000000000000000

-.00086

-.00111

-.00019

.10032

.10:61

.00022

.48413

.50484

.00298

.00594

.00220

.00059

45.000

69.000

GRADIENT

.49160

.51253

.00298

C 75	TABULATED	SOURCE E	DATA - CA	A20			•		PA	PF 656
	•	CAZO	747/1	01 51		CARRIER DATA	<b>L</b>	(HGN14	9) (25 N	OV 75 1
REFERENCE D	ATA							PARAMETRIC	DATA	
327.7800 IN.	XHRP = YHRP = ZHRP =	.000	OO IN.YC				ALPHAC = RUO-U = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = RUD-L = AILRON = PHI = DY =	.000 .000 -10.000 .000
		RN/L =	3.34	GRADIENT I	NTERVAL =	.00/ 12.00				
.000 . 3.000 . 7.500 . 15.000 .	40013 . 40810 . 42238 . 44431 .	05308 05310 05254 05270	CLM .05431 .05284 .03239 00408	01920 02295 03353	.00362 5 .00257 500021	CYN 00023 .00062 .00325 .01068	CL .39263 .40056 .41483 .43665	CD .09361 .09443 .09529 .09760	CSL .00431 .00367 .00289 .00088	CLN 00067 .00025 .00298 .01065 .01298
	10.000 SQ.FT. 327.7800 IN. 348.0400 IN0300  10.000  0Z	REFERENCE DATA  500.0000 SQ.FT. XHRP = 327.7800 IN. YHRP = 348.0400 IN. ZHRP = .0300  10.000  0Z CN C .000 .40013 .3.000 .40010 .7.500 .42239 .15.000 .44431	CA20  REFERENCE DATA  500.0000 SQ.FT. XHRP = 1339.901 327.7800 IN. YHRP = .001 348.0400 IN. ZHRP = 199.801 .0300  RN/L =  10.000 0Z CN CA .000 .40013 .05308 3.000 .40810 .05310 7.500 .42239 .05254 15.000 .44431 .05270	CA20 747/1  REFERENCE DATA  500.0000 SQ.FT. XHRP = 1339.9000 IN.XC 327.7800 IN. YHRP = .0000 IN.YC 348.0400 IN. ZHRP = 199.8000 IN.ZC .0300  RN/L = 3.34  10.000  0Z	CA20 747/1 O1 51  REFERENCE DATA  500.0000 SQ.FT. XHRP = 1339.9000 IN.XC 327.7800 IN. YHRP = .0000 IN.YC 348.0400 IN. ZHRP = 199.8000 IN.ZC .0300  RN/L = 3.34 GRADIENT 1  10.000  0Z CN CA CLH CY .000 .40013 .05308 .0643101893 3.000 .40810 .05310 .0528401920 7.500 .42239 .05254 .0323902295 15.000 .44431 .052700040803355	CA20 747/1 01 51  REFERENCE DATA  500.0000 SQ.FT. XHRP = 1339.9000 IN.XC 327.7800 IN. YHRP = .0000 IN.YC 348.0400 IN. ZHRP = 190.8000 IN.ZC .0300  RN/L = 3.34 GRADIENT INTERVAL =  10.000  0Z CN CA CLM CY CBL .000 .40013 .05308 .0643101803 .00435 3.000 .40810 .05310 .0528401920 .00362 7.500 .42239 .05254 .0323902295 .00257 15.000 .44431 .05270004080335300021	CA20 747/1 01 S1 CARRIER DATA  REFERENCE DATA  500.0000 SQ.FT. XHRP = 1339.9000 IN.XC 327.7800 IN. YHRP = .0000 IN.YC 348.0400 IN. ZHRP = 190.8000 IN.ZC .0300  RN/L = 3.34 GRADIENT INTERVAL = .00/ 12.00  10.000  0Z	CA20 747/1 01 51 CARRIER DATA  REFERENCE DATA  500.0000 \$Q.FT. XMRP = 1339.9000 IN.XC	CA20 747/1 01 51 CARRIER DATA  REFERENCE DATA  SEGO.0000 SQ.FT. XHRP = 1339.9000 IN.XC  327.7800 IN. YHRP = .0000 IN.YC  .0300 IN. ZHRP = 190.8000 IN.ZC  RN/L = 3.34 GRADIENT INTERVAL = .00/ 12.00  RN/L = 3.34 GRADIENT INTERVAL = .00/ 12.00  RN/L = 3.34 GRADIENT INTERVAL = .00/ 12.00  10.000  0Z CN CA CLM CY CBL CYN CL CD  .000 .40013 .05308 .0643101803 .004350023 .39263 .09361  3.000 .40810 .05310 .0528401920 .00362 .00062 .40056 .09443  7.500 .42239 .05254 .0323902295 .00257 .00325 .41483 .09529  15.000 .4431 .05270004080335300021 .01068 .43665 .09767	REFERENCE DATA  REFERENCE DATA  REFERENCE DATA  SEGO. 0000 SQ. FT. XHRP = 1339.9000 IN.XC  SGO. 0000 SQ. FT. XHRP = 1339.9000 IN.XC  SGO. 0000 IN. YHRP = .0000 IN.YC  SGO. 0000 IN. ZHRP = 190.8000 IN.ZC  RN/L = 3.34 GRADIENT INTERVAL = .00/ 12.00  RN/L = 3.34 GRADIENT INTERVAL = .00/ 12.00  10.000  0Z

DMAR		, ,	cointe	TIA	INTERVA		_	007	12.00	
DN/I	•	7 7	E-S-AIIII	NI.	INTERVA	1	-	- 11117	10.00	

-.01957

-.00826

-.00057

-.04859

-.06474

-.08428

.05072

,04998

-.000008

ALPHAO =	14.000 DZ	CN	CA	CLM	CY	CBL	CYN	CL.	CD	CSL	CLN
	.000	.32503	.05214	. 15155	01076	.00512	00528	.31798	.08517	.00455	00578
	3.000	.33009	.05215	. 15877	01346	.00481	00333	.32301	.06557	.88444	00381
	7.500	.34974	.05329	.12174	01757	.00380	08035	.34245	.08879	.00375	00074
	15.000	.38078	.05364	.07535	02534	.00221	.00539	.37332	.09221	.00275	.00513
	30.000	.42816	.05286	.01277	03471	00131	.01284	.42855	.09618	.00001	.01291
	45.080	.45847	.05189	01978	02679	00184	.01006	.45083	.09819	00081	.01019
	60.000	.48501	.05085	05053	01916	00245	.00745	.48133	.10015	0016B	.00765
	GRADIENT	.00338	.00016	08428	00091	00018	.00065	.00335	.00050	00011	.00067

-.00155

~.00133

-.00024

.00572

.00207

.00047

-.08693

.05117

GRADIENT

.00173

-.08054

.00110

.00003

.05030

DATE 04 DEC 75	TABULATED SOURCE DATA - C.	N20			PAGE 627
	CA20	01 25 23	ORBITER DATA	(NGNDO1) ( O	3 MAR 75 I
REFERENCE D	PATA			PARAHETRIC DATA	
SREF = 2690.0000 SQ.FT. LREF = 474.8100 IN. BREF = 936.6800 IN. SCALE = .0300	XHRP = 1109.0000 IN.XO YHRP = .0000 IN.YO ZHRP = 375.0000 IN.ZO		ELEYON =	5.000 AILRON -5.000 PHI	000 000
	RN/L = 1.92	GRADIENT INTERVAL =	.00/ 12.00		
6.000 . 8.000 . 10.000 . 12.000 . 14.000 . 15.000 .	N CA CLH 34493 .0118601572 441930002901266 540540145500866 636520298200419 7380904577 .00132 6425106135 .00808 9543707751 .01142 0489900696 .00193	CY CBL	CYN CL .01513 .34170 .01514 .43757 .01566 .53486 .01553 .63076 .01591 .72724 .01643 .82688 .01592 .93161 .00009 .04822	CD CSL .04784094 .06121002 .07554000 .10759 .006 .13415 .004 .17328 .005 .22119 .007	78 .01567 11 .01592 92 .01526 32 .01532 10 .01593 57 .01418
6.000 . 8.000 . 10.000 . 12.000 . 14.000 . 16.000 .	N CA CLH 35171 .0124601696 451890096901504 556340152601271 658010282200620 7613504284 .00306 8708104403 .00845 9751904024 .01080	CY CBL .0713000653 .0715200461 .0692800230 .0694400065 .06551 .00160 .0678000194	CYN CL .01490 .34848 .01436 .44759 .01516 .55053 .01481 .64950 .01582 .74910 .01337 .84821 .01364 .93890	CD CSL .04916004 .06221002 .09157 .000 .10920 .003 .14262 .005 .19770 .001	76 .01489 37 .01532 03 .01450 38 .01455 82 .01339 65 .01407

.00135

.0099B

(NGNDD2) ( 03 MAR 75 ) ORBITER DATA CAZO 01 52 53 PARAMETRIC DATA REFERENCE DATA .000 5.000 AILRON = XMP = 1109.0000 IN.XO ELEVON = SREF = 2690.0000 SQ.FT. BETAO = .000 PHI .000 .0000 IN.YO YHRP = LREF = 474.8100 IN. ZHRP = 375.0800 IN.ZO BREF = 935.6800 IN. SCALE -OUEO. GRADIENT INTERVAL . .00/ 12.00 RN/L = 1.89 MACH = .300 CL CD CSL CLN CYN CLH CY CBL CA **ALPHAO** CN -.00259 .00120 -.01368 -.00270 .00092 .33505 .05065 .00539 .01476 6.000 .33645 -.00268 .00101 .08069 .43126 .06234 .00587 +.00299 -.01103 8.000 .43574 .00172 .00107 -.00301 -.00315 .00053 .52946 .07994 .53530 -.01321 -.60932 .00585 18.000 .00149 .00505 -.00297 .00089 .62496 .10324 -.00272 -.02896 -.00096 .63276 12.000 .00055 .72395 .13426 -.00247 .00130 -.00271 .73483 -.04485 .00569 .00462 14.000 -.00165 .00165 .02805 .17362 -.00285 .00114 -.06135 .00888 .00306 16.000 .64393 ~.00157 .00172 .93457 .22177 .01233 .00242 -.00203 .00115 .95735 -.07788 18,000 .00986 -.00003 .00005 -.00005 -.00801 .04840 80200. -.00005 -.00730 GRADIENT .04913 (NGN003) ( 03 MAR 75 ) ORBITER DATA CAEO 01 52 53 PARAMETRIC DATA REFERENCE DATA .000 5.000 AILRON = ELEVON = XHRP # 1109.6080 IN.XO 2590.0000 SQ.FT. SREF -.000 BETAO = .000 PHI YI RP .6080 IN.YO LREF = 474.8100 IN. 936.6900 IN. ZMRP = 375.0000 IN.ZO EREF . SCALE = .0300 GRADIENT INTERVAL = 100, 12.00 RN/L = 3.28 .600 MACH = CSL CLN CYN CL. CD CLH CY CBL. CA ALPHAO CN: .00042 .00025 .36489 .05679 -.00167 -.00155 -.00171 -.08916 .01834 6.000 .36962 .07289 -.00176 .00059 .46786 -.00160 -.00182 .00034 .00787 -.08450 9.000 .47346 -.00125 .00079 -.00216 -.00137 .80056 .56721 .09507 .00524 .57510 -.00487 10.666 .65539 .119+3 -.00047 .00114 -.00070 .09101 -.00289 -.02152 .01722 12.080 .67559 .00101 .76625 .13875 -.00032 .00112 -.05074 .02401 -.00274 -.00059 14.000 .77705 .87368 .14580 -.00169 .00023 .01813 -.00049 -.00169 -.00025 -.10057 16.000 .68802 .13334 -.00548 -.0020B .99154 -.00789 .00514 ~.08457 -.00367 -.17959

-.00022

.00445

.00017

.01051

.05004

.00013

.00021

.00012

18.000

GRADIENT

.98421

.05111

TABULATED SOURCE DATA - CA20

PAGE 629 DATE OF DEC 75 ORBITER DATA (NGND04) ( 03 MAR 75 ) CYSO 01 52 53 PARAMETRIC DATA REFERENCE DATA .000 ELEVON = 5.000 AILRON -XHRP = 1109.0000 IN.XO SREF # 2690.0000 SQ.FT. .000 PHI .000 BETAO = YHRP .0000 IN.YO LREF = 474.8100 IN. ZHRP = 375.0000 IN.ZO BREF = 936.6800 IN. SCALE = .0380 .00/ 12.00 RN/L = 3.26 GRADIENT INTERVAL . HACH .600 CSL CLN CBL CYN CL CĐ CA CLH CY **ALPHAO** .00101 .00359 -.00254 .00075 .35293 .05579 -.00245 -.01152 .35673 .01861 6.000 -.00274 .00084 .00045 .45434 .07227 .00390 -.00283 .00934 -.00609 8.000 .45998 .00091 -.00211 -.00224 .00053 .55411 .09291 -.00472 .00203 .00394 .56183 10.000 .00141 .66165 .12638 -.00180 .00182 .00225 -.00214 -.01395 .01105 12.008 .67340 .15505 -.00263 .00115 .00048 .75026 .80403 -.00203 14.000 .76573 -.03809 .01699 -.00242 .00034 .01705 .00519 -.00242 -.08034 .82972 .16060 -.07432 .64184 16.000 -.00250 .00091 -.00266 .000009 .93105 .14730 -.14763 .00457 .00671 18.000 .93101 .00013 -00013 .08010 .05131 .01162 .00395 -.08020 .00009 .05260 -.00554 GRADIENT (NGN005) ( 03 HAR 75 ) ORBITER DATA CYSO 02 52 53 PARAMETRIC DATA REFERENCE DATA AILRON = .000 ELEVON = 5.000 XHRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. PHI -000 BETAO = -5.000 .8080 IN.YO LREF = 474.8100 IN. YHRP ZMRP 375.0000 IN.ZO BREF = 936.6800 IN. .0300 SCALE -2.87 GRADIENT INTERVAL = .00/ 12.00 .480 MACH = CLN CYN CL CĐ CSL CY CBL CLH **ALPHAO** CN CA .01046 .08867 -.00236 .01015 .33696 .07360 ~.00344 .34354 .04501 +.00292 6.000 .00997 .09476 -.00023 .00296 .07386 -.60162 .00984 .43054 .03391 8.000 .43953 .11412 .00253 .00955 .00984 .52770 .07275 .00083 .02075 .00889 10.000 .53950 .00979 .13968 .08502 .00308 .00954 .62744 .00618 .01462 .07178 12.009 .64277 .00542 .06886 .00478 .01090 .73264 .17103 .00728 -.01129 .02083 14.080 .75225 .00272 .00767 .00050 .00812 .83325 .22464 .02315 .07322 -.01390 16.000 .86347 .92497 .28875 .00154 .00559 .00855 -.01121 .02653 .07057 -.00119 18.000 .96893 .00992 .00124 -.00027 .04643

.00110

.00293

.04998

GRADIENT

-.00648

-.00033

DATE OH DEC 75		TABULI	TABULATED SOURCE DATA - CAZO							,		
			CY50		os ss s3		ORBITER DATA	•	(NGNB0	S) ( 03 HA	R 75 )	
REFERENCE DATA								PARAMETRIC DATA				
SREF = . LREF = . BREF = . SCALE =	2690.0000 SQ. 474.0100 IN. 936.6000 IN. .0300	YHRP	= .00	00 IN.XO 00 IN.YO 00 IN.ZO				ELEVON = SETAO =	5.000 .000	AltRON = PHI =	.000 .000	
			RN/L =	2.85	GRADIENT INT	ERVAL =	.007 12.00					
HACH =	.465 ALPHAO 6.000 6.000 10.000 12.000 14.000 16.000 GRADIENT	CN .34527 .44357 .54600 .64611 .75182 .66975 .97082	CA .04451 .03161 .01703 .00235 01239 01759 00557 09705	CLM 00324 .00123 .00547 .01480 .02269 .02441 .02818 .00297	CY .00259 .00294 .00199 .00143 00011 .00563 .00229 00022	CBL 00236 00280 00253 00185 00185 00429 00499 .00001	CYN .00065 .00065 .00065 .00065 .00150 00152 08050 .00003	CL .33972 .43465 .53475 .63150 .72263 .84091 .92534 .04891	CD .08036 .09364 .11159 .13653 .16927 .22683 .89375 .00937	CSL 00228 00268 00237 00216 00143 00454 00499	CLN .00089 .00099 .00107 .00154 .00190 00028 .00107	
MACH *	ALPHAO 6.000 8.000 10.000 12.000 14.000 16.000 GRADIENY	CN .25453 .45990 .56454 .67692 .77692 .85596 .95220	CA .04527 .03247 .01873 .00476 .00943 .00093 05465 00676	CLM 00428 00398 .00550 .01208 .01851 .02039 .00972	60148	C9L00227002140021200207002690024600155	.00177 .00090 .00034 .00075	CL .34786 .45091 .55271 .66114 .75127 .83206 .93325	C0 .08208 .08616 .11648 .14540 .19703 .23955 .24315	CSL 00220 00231 00195 00195 00239 00227 00124	CLN .00076 .00107 .00113 .00216 .00152 .00101 .00119	

	DEC	

18.000

GRADIENT

.99447

.05404

-.02693

-.00701

-.61670

.00156

TABULATED SOURCE DATA - CA20

		•			CYS	20	01 51		ORBITER DATA	A.	INGNO	17) (03 HJ	R 75 )
		REFER	RENCE DA	<b>LTA</b>							PARAHETRIC	DATA	
LREF :	=	2690.0000 474.8100 936.6800	IN.	XMRP YMRP ZMRP	•	.0000 IN.XO .0830 IN.YO .0800 IN.ZO				ELEVON = BETAO =	5.000 -5.000	AILRON = PHI =	.000 .000
SCALE •	•	.0300			RN/L	- 2.00	GRADIENT	INTERVAL =	.00/ 12.00				
HACH		300											
		ALPHA0			CY	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
		6.000		35106	.00729	03010	.0472		.01503	.34838	.04394	00546	.01559
		0.000		14122	00462	02203	.0478		.01531	.43748	.05742	00355	.01597 .01648
		10.000		540B1	01842	02028	.0459		,01611	.53560	.07573	00069	
		12.080		33743	~.0349B	01462	.0446		.01653	.63078	.09932	.00237	.01653
		14.000		73486	05077	00439	.0441		.01721	.72531	. 12851	.00357	.01682
		16.000		34046	06770	.00073			.01827 .01925	.82656 .93047	.16559	.00538 +3800.	.01746 .01743
		18.000 GRADIENT		95054 34793	08560 00706	.00571 14500.	0004		.00028	.93047	.00907	.00132	.00015
					RN/L	<b>3.</b> 41	GRADIEN!	INTERVAL =	.00/ 12.00				
HACH	,	600											
		ALPHA0	) Ci	4	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
		6.000	.3	35904	.01017	03010	.0515	400731	.01477	.35601	.04765	00572	.01545
		8.000	) ,	16359	00220	02710	.0506	300514	.01518	.45938	.06234	00298	.01575
		10.000		57144	01612	02552	.0495	200247	.01580	.55556	.08335	.00031	.01599
		12.000	) .E	88337	03190	02020	.0476	00030	.01682	.67507	.11029	.00379	.01639
		14.000		78230	03451	01510	.0502	800407		.76741	. 15577	00018	.01611
		16.000	3. (	38158	03184	01421	.0525	900795	.01555	.85620	.21239	00335	.01714

-.00713

.00127

.05115

-.00054

.94461

.05317

.27881

.01054

-.00165

.00159

.01600

.00015

.81661

.00034

DATE 04 DEC 75 (NGN003) ( 03 HAR 75 ) **CA20** 01 S1 ORBITER DATA PARAMETRIC DATA REFERENCE DATA AILRON = .000 ELEVON -.080 XHRP = 1169,6000 IN.XO SREF = 2690,0000 SQ.FT. .000 EETAO -.000 PHI YMRP = .8000 IN.YO 474.8100 IN. LREF = ZMRP · 375.0000 IN.ZO BREF = 936.6800 IN. SCALE = .0300 GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.26 MACH .680 CSL CLN CĐ CBL CYN CL CLH CY ALPHAO CN CA -.00128 -.00106 .22441 .04397 .03932 -.00182 - 10098 -.00139 .22778 .02027 6.000 -.00127 -.00077 -.00115 -.00094 .32740 .05405 -.00214 .33174 .00796 .04262 8.080 .06939 -.00139 -.08042 -.00179 -.00129-.00065 .43341 -.00701 .04624 10.000 .43886 -.00143 .00072 .09191 -.08155 .00041 .54199 .54925 -.02278 .05155 -.00280 12,000 -.00183 -.00023 -.00172 -.00057 .64136 .13283 -.08059 .65444 -.02628 .05264 14.000 -.00250 -.00120 -.00208 -.00184 .73571 .16558 .75960 -.02372 .05090 12100. 16.000 -.00059 .84003 .25169 -.00192 -.00114 .67670 -.02022 .04344 .00123 -.00165 1B.000 .00032 .00028 .05294 .00795 -.000006 .00202 -.00013 -.00010 -.00721 .05258 GRADIENT (NGN809) ( 03 MAR 75 ) ORBITER DATA CAEO 01 51 PARAMETRIC DATA REFERENCE DATA -10.000 ELEVON = 5.000 AILRON = - 1169,6880 IN.XO XHRP 2690.0000 **SQ.FT.** BETAO \* .688 PHI .000 .0800 IN.YO 474.8100 IN. YHOP LREF ZM:32 = 375.0000 IN.ZO 935.6800 IN. eref « SCALE = .0300 .00/ 12.00 3.26 GRADIENT INTERVAL = RN/L = MACH .600 CLN CD CSL CL CLH CY CBL CYN CA **ALPHAO** -.60335 -.00822 .33208 .05944 -.04672 -.04611 -.01083 .04258 .02440 6.000 .33647 .43449 .07344 -.04778 -.80146 -.04712 -,00910 .04452 .44049 .01226 -.00725 8.000 -.00725 .54601 .09397 -.04971 .00140 ~.00692 .04623 -.04920 -.00237 .55401 10.000

.E5161

.75299

.82789

.92917

.05501

.12161

.16623

.22147

.28990

.01035

-.05103

-.04E0B

-.04019

-.04035

-.00074

.00554

.00585

.0039t

.00395

.0014B

.04559

.04558

.04741

.05238

.00054

-.00556

-.00107

. 00448

.00081

-.00060

-.01660

-.02088

-.01531

-.01141

-.00718

.67244

.77084

.05587

.97328

.05507

12.000

14.000

16.000

18.000

GRADIENT

-.05107

-.04613

-.03968

-.03959

-.00085

-.00520

-.08546

-.00742

-.00871

MACH

TABULATED SOURCE DATA - CA28

CA20 01 51 ORBITER DATA (NGN010) ( 03 HAR 75 ) REFERENCE DATA PARAMETRIC DATA XXX = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. ELEVON = 5.000 AILRON = .000 474.8100 IN. YHRP = .0000 IN.YO BETAO = .000 PHI .000 EREF = 936.6800 IN. ZMRP 375.0000 IN.ZO SCALE = .0300 RN/L = 1.92 GRADIENT INTERVAL = .00/ 12.00 .300 **ALPHAO** CA CN CLH €Y CBL CYN CD CSL CLN 6.000 .32739 -.01160 .01541 -.00178 -.00155 -.00138 .32399 .04954 -.00169 -.00121 8.000 .42372 .00151 -.00897 -.00153 +.00184 -.00110 .41939 .06047 -.00198 -.00083 -.00467 10.000 .51921 -.01295 -.00121 -.00230 -.00055 .51357 -.00025 .07741 -.00238 12.000 .61417 -.02894 .00310 -.00105 -.00250 -.00025 .60576 .09939 -.00250 .00028 14.000 .71374 +.04559 .01056 -.00029 -.00234 -.00028 .70357 .12843 -.00234 .00030 16.000 .82261 -.06179 .01451 .00023 -.00200 -.00001 .80778 . 16735 -.00193 .00054 19.000 .93911 -.07926 .01498 -.08034 -.00214 .00039 .91764 .21402 -.00192 .00103 GRADIENT .64779 -.00737 .00242 .08013 -.00017 .00019 .04713 .00932 -.00014 .00025 RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00

MACH	_	.600										
		ALPHAO	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
		6.000	.32827	.02289	00463	00122	00142	00145	.32408	.05788	00156	00129
		8.609	.43472	.00961	00341	00153	00171	00102	.42915	.07002	00184	00077
		10.000	.53937	00495	.00194	00126	00188	00094	.53105	.08861	00280	08850
		12.000	.65321	02063	.00571	00222	00159	.00020	.6-322	.11563	00151	.00053
		14.000	.75344	02207	.00891	10100.	00296	00112	.73640	.16086	00314	00037
		16.000	.85095	01722	.00818	.00351	00310	00224	.02273	.21800	00360	00130
		18.000	.97258	01450	00087	.00214	00202	00134	.92955	.28678	00233	00065
	1	GRADIENT	-05392	00726	.00197	00014	08083	.00026	.05297	.00971	.00000	.00029

PAGE 634

DATE UT DEC	15				•						
			CA20		01 SI	O	RBITER DATA		(NGHB11	1 ( 03 194)	R 75 )
	REFERENC	E DATA						i	PARAMETRIC	DATA	
LREF = 47	90.0000 <b>50.</b> 74.8100 IN. 85.6900 IN.	FT. XHRP YHRP	= .08	00 IN.XO 00 IN.YO 00 IN.ZO				ELEVON - EETAO -	000.01	AILRON = PHI =	.000
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
насн -	.600 ALPHAO 6.000 B.000 10.000 12.000 14.000 16.000 18.000 GRADIENT	CN .43141 .63893 .64350 .76410 .85139 .84785 1.08633	CA .03032 .01741 .00352 01112 01357 00676 00299 60691	CLH 05043 04760 04330 04069 03534 03433 64448 .00169	CY0016300157001450015500806 .00212 .00216 .00002	CBL 00134 00132 00152 00168 00267 00205 00205	CYN00150001270008900086001620013900020	CL .42589 .52839 .63311 .74972 .83907 .91301 1.01758 .05391	CD .07525 .09184 .11520 .14739 .19522 .25477 .32750 .01208	CSL 00149 00165 00170 00181 00243 00239 00004	CLN 00135 00107 00061 .00008 00043 00059 00059
			CAEO		01 51	ı	DRBITER DATA		ENSNDT	SI (03 H)	UR 75 )
	REFEREN	TE DATA							PARAHETRIC	DATA	
LREF . 4	90.0000 50. 74.8100 IN 26.6800 IN	FT. 1948P YHESP	0	080 IN.XO 080 IN.YO 080 IN.ZO				ELEVON = ALPHAO = PH1 =	5.000 10.000 .000	Altron = BETAO =	.080 -5.000
			RN/L =	3.33	GRADIENT INT	FERVAL =	.00/ 12.00				
MACH =	.600 OZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .60655 .60552 .60358 .60254 .52699 .59263 .58779	CA 02015 02003 01982 01941 01857 01743 01615 .08004	CLH 02512 02506 02496 02561 02931 02978 02922	.05036 .05078 .05171 .05329 .05430	CBL 00134 00142 00153 00161 00261 00241 00003	CYN .01609 .01616 .01619 .01629 .01555 .01575 .01714	CL .60000 .59847 .59597 .55593 .59230 .58593 .59025	CD .69117 .69089 .09091 .09118 .09189 .09140	CSL .00163 .00165 .00145 .00139 .00184 .00049 00023	CLN .81607 .01615 .01620 .01631 .01670 .01654 .01747

\_\_\_

\_\_\_

TABULATED SOURCE DATA - CA2D DATE 04 DEC 75

GRADIENT

-.00208

.08067

.00199

PAGE 635

.00022

.00041

-.00320

DAIL OF L	EC 10	1,00,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_						
			CV50		01 51	Of	RBITER DATA		(NGND1	3) (03 M	IR 75 )
	REFERENCE	DATA						F	ARAMETRIC	DATA	
SREF = LREF = BREF = SCALE =	2698.0080 SQ.F 474.8100 IN. 936.6800 IN.	T. XMRP YMRP ZMRP	= .08	00 IN.XO 00 IN.YO 00 IN.ZO				ELEVON = ALPHAO = PHI =	5.000 14.000 .000	AILRON = EETAO =	.000 -5.000
			RN/L =	3.30 0	RADIENT INT	ERVAL =	.00/ 12.00				
HACH •	.600								60	CSL	CLN
	DŽ	CN	CA	CLH	CY	CBL	CYN	CL	CD	00072	.0118
	.080	.80819	04375	01291	.05051	00373	.01131	.79264	.16374	00157	.013
	3.000	.81441	03942	01389	.05274	00503	.01289	.79752	.17560	00245	.015
	7.500	.82840	03495	01508	.05506	00636	.01451	.80215	.17966	00307	.017
	15.000	.82356	03163	01647	.05685	00732	.01567	.80435	.17773	00289	.016
	30.000	.81821	03284	01826	.05690	00705	.01540	.79932	.17693	00299	.016
	45.000	.81377	03167	01939	.65730	00717	.01549	.79493	.17548	03230	.017
	60.880	.88857	03177	~.01849	.05953	00719	.01594	.79084	.00158	00023	.000
	GRADIENT	.00160	.00116	00029	.00060	00035	.00042	.00125	.00120	03063	.000
			CA20		01 51	0	RBITER DATA	ı	(NGN91	4) ( 03 H	AR 75 )
	REFERENCI	E DATA						1	PARAMETRIC	DATA	
SREF = LREF = BREF = SCALE =	2690.0000 SQ.I 474.8100 IN. 936.6800 IN.	FT. XHRP YHRP ZHRP	• .00	000 IN.XO 000 IN.YO 000 IN.ZO				ELEVON = ALPHAO =	5.000 7.500	AILRON = PHI =	.000 000.0 <del>0</del> -
JUNEE -	1000		RN/L =	3.29	GRADIENT INT	ERVAL = -5	.00 <b>/ 5.0</b> 0				
MACH	600							_	-00	ee	CLN
	BETAG	CN	CA	CLM	CY	CBL	CAM	CL	CD	CSL 00546	.844
	-15.000	.44368	08243	02796	.15029	01132	.04376	.44013	.05997		.038
	-19.000	.45318	.00021	02235	.09755	00608	.03157	.44918	10080.	00186	.024
	-7.500	.45935	.08008	02259	.07457	+.08442	.02378	.45532	.06072	80124	.017
	-5.00 <b>0</b>	.47243	00327	02980	.04969	00334	.01631	.46873	.05912		.009
	-2.509	46894	00378	02403	.02522	00202	.00944	.46533	.05921	08075	.001
	.000	.44667	.00654	00418	.00180	00002	.00167	.44187	.06561	.09020	038
	2.500	.46252	00110	01984	02884	.00131	00677	.45861	.08006	.00840	005

-.00940

.08864

-.00314

-.00215

.00058

-.00008

-.00003

.06294

.06109

.00263

.00179

.00807

-.00573

.75597

.66575

.05282

16.000

18.000

GRADIENT

-.00257

-.00284

-.00011

.00005

.00021

PAGE 635

-.00268

-.00007

.27520

.006+1

.02099

.05177

.00093

DATE 04 DEC 75 TABULATED SOURCE DATA - CA20 PAGE 637

CVSO 02 SI ORBITER DATA (NGND17) ( 03 MAR 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SQ.FT. XHRP = 1109.0000 IN.XO ELEVON = 5.000 AILRON \* -10.000 LREF = 474.8100 IN. YMRP = .0000 IN.YO BETAO -.000 PHI .000 375.0000 IN.ZO BREF = 935.E900 IN. ZMRP SCALE . .0300 RN/L = 3.28 GRADIENT INTERVAL = .007 12.00 HACH = .600 **ALPHAD** CN CA CLH CY CBL CYN CL CD CSL CLN 6.000 .05221 .33152 -.00387 .03049 -.04519 -.08438 .32424 .02657 -.04540 .00037 6.000 .43514 .03958 -.00057 .03289 -.04576 -.00398 .42539 .09975 -.04587 .00243 10.000 .54643 .02659 .00163 .03470 -.04781 -.80345 .53351 .12108 -.04769 .00491 12.000 .65915 .01291 .00781 .03485 -.04959 -.00213 .64206 .14967 -.04695 .00823 14.000 .75513 .01304 .01483 .03565 -.04506 -.00222 .72955 .19533 -.04426 .00875 .02050 16,000 .64153 .02127 .03458 -.03935 -.00241 .80307 .25240 -.03849 .00B54 18.000 .95110 .02852 .01858 .03472 -.03944 -.00169 .89574 .32103 -.03803 .01059 GRADIENT .05471 -.00654 .00186 .00078 -.00076 .00035 .05308 .01053 -.00062 .00130 CYSO 02 51 ORBITER DATA (NGN018) ( 03 MAR 75 ) REFERENCE DATA PARAMETRIC DATA SREF - 2690.0000 SQ.FT. XMRP - 1109.0000 IN.XO ELEVON = 5.000 AILRON = .000 LREF 474.8100 IN. YMRP .0000 IN.YO BETAO = .000 PHI .000 BREF = 936.6900 IN. ZHRP = 375.0000 IN.ZO SCALE \* .0300 RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00 HACH = .600 **ALPHAO** CN CA CLM CY CBL CYN CL CD CSL CLN 6.000 .33856 .04096 -.08528 -.00297 -.00184 -.00024 .33242 .07613 -.00186 -.08005 8.000 .44347 .02805 -.00217 -.00333 -.00204 .00006 .43525 .08950 -.00201 .00035 10.030 .54601 .01429 .00395 -.00276 -.00185 .00013 .53523 .10889 -.00180 .00045 12.000 .65893 .00046 .01073 -.00365 -.00190 .00104 .64434 .13743 -.00164 .00141 14.000 .75432 .00240 .01644 -.00073 -.00299 -.00012 .73133 .18482 -.00293 .00050 16.080 .84402 .08829 .02324 .00031 -.00291 -.00051 .80904 .24061 -.00294 .00031 .95499 18.000 .01501 .02105 -.00013 -.00363 .00052 .90362 .30938 -.00329 .00162 .05317 GRADIENT -.00576 .00271 -.00007 .00000 .00019 .05179 .01016 .00004 .00022

PAGE 538

EC 75	IABULA	IED WOONGE	DATA - CA	~~						
		C480		02 SI	(	ORBITER DATA		(NGNB1	9) (05.52)	P 75 )
REFERENCE	E BATA						!	PARAMETRIC	DATA	
2690.0080 50.6 474.8100 IN. 936.6900 IN.	438FP	. CI	00.41 000				ELEVON = BETAO =	10.080 .000	AILRON = PHI =	.000 .000
		FINAL =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
.600					es.	CVU	~	CD.	CSI.	CLN
		•						-		00004
6.000	.49099							-		.00016
8.008	.54430									.00042
10.009										.00115
12.008	.77146									.00061
14.000	.GB1 <b>79</b>									.0000B
16.000	.64092									.00071
18.000	1.05590									P1000.
GRADIENT	.05501	00657	.00197	09065	00003	.00016	.03313	14310.	10000	
		CVS		<b>03</b> S2		ORBITER DATA		ENGNBA	(03 HA	R 75 )
REFERENCI	E DATA							PARAHETRIC	DATA	
							ELEVAN =	5,000	AILRON =	.088
								_	PHI =	.000
474.8100 IN.									• •	
936.6900 IN.	ZHRP	= 375.0	086 IN.ZO				NOUUER -	1000		
		RN/L =	1.92	GRADIENT INT	ERVAL =	.00/ 12.00				
.300								co	CCI	CLN
ALFHAO	CN	CA	CLM			_		-		00513
6.000	. 35622	.01334	01584	.12064						00913
0.000	.45415	.00110	01356		.01680	00327	.44958	.06429		80465
		01309	01004	.11589	.01298	80244	.54653	.08309 .10711	.01236 .01439	00543
10.080	.55275	01303					Craco	10711		00343
10.000 12.000	.65275 .65111	02889	00697		.01520	00232	.64289			- 00555
12.000			0069 <b>7</b> 00159		.01559	00194	.73951	.13839	.01465	00565
12.000 14.000	.65111 .75102	02889		.11274		00194 00137	.73951 .84243	.13839 .17796	.014E5 .01577	00595
12.000	.65111	02889 04463	.00159	.11274 .10979	.01559	00194	.73951	.13839	.014E5 .01577 .01765	
	REFERENCE 2690.0000 SQ.6 474,8100 IN. 936,6900 IN0300 .600 ALPHAO 6.000 8.000 10.000 14.000 14.000 GRADIENT REFERENCE 2690.0000 SQ.1 474,8100 IN. 936,6900 IN0300 ALPHAO ALPHAO	REFERENCE DATA  2690.0000 SQ.FT. XMRP 474.8100 IN. YMRP 936.6900 IN. ZMRP .0300  .600 ALPHAO CN 6.000 .44099 8.000 .54430 10.000 .65315 12.000 .77146 14.000 .66179 16.000 .54092 18.000 I.05590 GRADIENT .05501  REFERENCE DATA 2590.0000 SQ.FT. XMRP 474.8100 IN. YMRP 936.6900 IN. ZMRP .0300  ALPHAO CN	REFERENCE DATA  2690.0000 SQ.FT. XMRP = 1109.00 474.8100 IN. YMRP = .00 936.6900 IN. ZMRP = 375.00 .0300  EN/L =  .600 ALPHAO CN CA 6.000 .44099 .04947 8.000 .54430 .03675 10.000 .65315 .02313 12.000 .77146 .01023 14.000 .65179 .01235 16.000 .54092 .02669 18.000 1.05590 .03061 GRADIENT .0550100557  CA20  REFERENCE DATA  2590.0000 SQ.FT. XMRP = 1109.00 474.8100 IN. YMRP = .0 936.6900 IN. ZMRP = 375.00 ALPHAO CN CA	REFERENCE DATA  2690.0000 SO.FT.	REFERENCE DATA  2690.0000 S0.FT. XMRP = 1109.0000 IN.X0 474.0100 IN. YMRP = .0000 IN.Y0 936.6900 IN. ZMRP = 375.0000 IN.Z0 .0300  EN/L = 3.26 GRADIENT INTO .0300  EN/L = 0.000500254 .00235 .00235 .00235 .00235 .00235 .00235 .00235 .00235 .00236 .00235 .00235 .00236 .00236 .00236 .00236 .00236 .00236 .00236 .00237 .00326 .00326 .00326 .00326 .00326 .00326 .00326 .00326 .00327 .00327 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00339 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .003338 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .00328 .0	REFERENCE DATA  2690.0000 SQ.FT. XMRP = 1109.0060 IN.X0 474.8100 IN. YMRP = .0000 IN.Y0 936.6900 IN. ZMRP = 375.0000 IN.Z0  600  ALPHAD CN CA CLM CY CBL 6.000 .44099 .04947650950025400177 8.000 .54430 .03675647050023300181 10.000 .65315 .02313043590023500187 12.000 .77146 .01023039000028700187 14.000 .65179 .01235030260028700187 14.000 .65179 .01235030260003500217 16.000 .54092 .0266902198 .0013900226 18.000 1.05590 .0306102671 .0006300213 GRADIENT .0550100657 .001970000500002  CA20	REFERENCE DATA  REPART STATE S	REFERENCE DATA   REFERENCE DATA   REFERENCE DATA  RESOLUTION REFERENCE DATA  RESOLUTION RESPONSION REFERENCE DATA  RESOLUTION RESPONSION RESPONS		

PAGE 639 TABULATED SOURCE DATA - CA20 DATE 64 DEC 75 (NGN020) [ 03 MAR 75 ] ORBITER DATA CA20 03 S2 PARAMETRIC DATA REFERENCE DATA ELEVON \* 5.000 AILRON = .000 1109.0000 IN.XO XHRP = 2690.6000 SQ.FT. -5.000 PHI .000 BETAO = .0000 IN.YO YMRP 474.8100 IN. 375.0000 IN.ZO RUDDER -.000 ZHRP BREF = 936.6800 IN. SCALE = .0300 RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00 HACH .600 CLN CYN CD CSL CLH CY CBL CL **ALPHAO** CN CA .37842 .05276 .01110 -.00791 .13135 .01197 -.00671 .01291 -.02315 6.000 .38186 -.00792 .48184 .06847 .01269 -.02060 .12849 .01367 -.00507 9.000 ,48669 .00075 -.00771 -.02005 .12363 .01617 -.00498 .58897 .09083 .01506 -.01282 10.000 .59580 -.00813 -.0043B .70012 .12129 .01718 .01849 -.02692 -.01634 .12051 12.000 .71004 -.00952 .01155 -.02845 -.01354 .12431 .01354 -.08653 .79507 .16891 .81232 14.000 -.00385 .87479 .22978 .00916 -.00976 .12284 .01150 -.02025 -.01572 16.000 .90423 -.00837 .97397 .29759 .00838 -.00942 18.000 1.01826 -.01794 -.02228 .11930 .01088 .00103 -.00002 -.00665 .00105 -.00185 .00112 .00840 .05361 .01140 .05468 GRADIENT (NGN021) ( 03 HAR 75 ) CY50 03 52 ORBITER DATA PARAMETRIC DATA REFERENCE DATA ELEVON . 5.000 AILRON = .000 1109.0000 IN.XO 2690.0000 SQ.FT. XMRP BETAO -.000 PHI .000 474.8100 IN. YMRP .0000 IN.YO LREF W RUDDER \* .000 ZHRP 375.0000 IN.ZO BREF = 936.6800 IN. SCALE = .0308 GRADIENT INTERVAL = .00/ 12.00 1.93 HACH .300 CSL CLN CY CBL CYN CL. CD CLH **ALPHAO** CA -.00082 .05304 -.00156 .00939 -.00146 -.00098 .34201 6.000 .34568 .01700 -.00765 -.00223 -.00053 .00964 -.00213 -.00003 .44173 .06593 .00382 -.60B14 0.000 .44661 -.00263 -.00032 -.00078 .54107 .05406 -.00614 .01022 -.00254 10.000 .54745 -.01117 -.00210 -.00004 -.00205 -.00048 .63493 .10754 .64342 -.02682 .00115 .00959 12.000 -.00192 -.00089 .73234 .13827 -.00188 .00037 .00685 .00911 14.000 .74484 -.04301 -.00160 .00084 .00037 .03546 .17714 .00870 -.00177 .85192 -.06801 .00935 16.000 .00125 .95112 .22530 -.00118 -.07954 .01042 .00660 -.00151 .00082

.00006

.00142

-.00011

.0000B

.04691

.00908

-.00010

.00013

.97419

.04970

-.00732

18.000

GRADIENT

GRADIENT

.05483

-.00695

.00016

.01095

.00023

INGN821) ( 03 MAR 75 ) 03 S2 ORBITER DATA CASO PARAMETRIC DATA REFERENCE DATA AlLRON = .000 ELEVON = 5.000 XHSP = 1109.0000 IN.XO 2698.0800 SQ.FT. GETAO -.600 PHI .000 YMRP = .0809 IN.YO 474.8100 IN. .000 RUDDER = 375.0000 IN.ZO 936.6800 IN. ZMRP = EREF = .0300 SCALE = .66/ 12.00 GRADIENT INTERVAL = 2.94 .590 MACH CLN CBL CYN CL CD CSL CY ALPHAO CN CA CLH -.000B3 -.00145 -.00039 .35556 .05404 -.00154 .01657 -.01041.00854 6.009 .35926 -.00057 .06781 -.00195 -.01139 .00967 -.00185 -.08083 .45918 .80325 8.000 .46415 -.00854 .55369 .08749 -.0019B -.00020 -.00876 .00898 -.08191 10.000 .67032 -.01172 -.00135 -.00056 .65096 .11252 -.00144 -.00027 .00935 .66992 -.02736 -.00205 12.000 .00036 .76587 . 14642 -.00127 -.08132.00004 .00355 .00791 14.000 .77952 -.04345 -.08564 -.00247 .87283 .20448 -.04397 .00018 .01519 -.00416 -.00376 .69518 16.000 -.08065 -.00402 -.00200 .96154 .27144 -.00445 -.00257 .01217 -.03999 10.000 .99935 .00976 .00002 .00010 .0000B .05104 .00138 .00009 .00001 CRADIENT .05191 -.00734 GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.30 .680 PEACH CLN ÇS1. CEL CYN CL. CD CLH CY ALFHAU CN CA -.00084 -.00101 .35884 .05535 -.00169 .01757 -.01321 .00891 -.00159 6.000 .37192 -.00086 .47604 .07133 -.00157 -.00055 -.00146 .48133 .00439 -.01401 .00887 8.000 .58299 .09219 -.00078 -.00037 -.00050 -.01044 -.01102 .00831 -.00071 10.000 .59014 -.00089 .00063 .69092 . 12247 -.02364 -.00545 .00663 -.00100 .00043 .70119 12.000 -.00242 . 17294 -.00273 -.00055 -.00330 .01077 -.00158 .77822 .79752 -.02061 14.000 -.00073 -.00299 -.00162 .87003 .23063 -.00332 .01053 .69939 -.01811 -.00659 16.800 -.00017 -.00297 -.00114 .97088 .30082 -.D031B -.01634 .01024 -.01392 18.000 1.01633

*\_\_\_\_* 

.00131

-.00037

.00013

.00023

	DEC 75	TABULA	ated source	DATA - CA	20					PAG	E 641
			CA20		03 52		ORBITER DATA	·	CNGNOS	22) ( 03 Hz	R 75 1
	REFEREN	CE DATA							PARAMETRIC	DATA	
SREF =	2690.0000 SO			000 IN.XO				ELEVON =	5.000	AILRON +	-000
REF =	474.8180 IN			00 IN.YO				BETAO -	.000	PHI =	.080
REF =	936.6880 IN .0300	. ZMRP	= 375.0	380 IN.ZO				RUDDER =	.000		
			RN/L =	3.36	GRADIENT INT	ERVAL -	.00/ 12.60				
MACH	600								•		
PIAGIT	ALPHAO	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	6.000	.37085	.01742	01407	.00984	00124	00109	.36821	.05600	00135	00095
	8.000	.48106	.00422	01501	.00968	00150	08087	.47579	.07113	00161	00066
	10.000	.58592	00984	01126	.00957	09112	00058	.57873	.09205	08120	00036
	12.000	.70149	02511	00466	.00704	00057	.00055	.69138	.12128	00044	.00055
	14.000	.79703	02122	00369	.01092	00243	00134	.77849	. 17223	00269	00071
	16.000	.89962	01853	00631	01160	00297	00168	.86988	.23015	00332	00080
	18.000	1.01679	01395	01593	.01079	00289	00120	.97134	.30094	00311	00025
	GRADIENT	.05495	0070B	.00160	00043	.00012	.00026	.05392	.01084	.00016	.00026
	REFEREN	CE ĐẠTA	CAZO		03 52	ı	ORBITER DATA	•	(NONOS		R 75 )
REF =	2690.0000 50	.FT. XHRP	= 1109.00	00 IN.XO				ELEVON =	5.000	AILRON =	.000
REF *	474.8100 IN			100 IN.YO				ESTAD =	.000	PHI =	-000
		•									
BREF .	936.6900 IN	. ZHRP	= 375.00	00.ZO				RUDDER -	15.000		-000
	.0300 10300	. ZHRP	= 375.00	180 IN.ZO							.000
		. ZMRP	= 375.00 RN/L =		GRADIENT INT	ERVAL =	.00/ 12.00				.000
CALE -		. ZHRP			GRADIENT INT	ERVAL =	.00/ 12.00				-400
CALE -	.0300	. ZHRP			GRADIENT INT	ERVAL =	.00/ 12.00			<b>C</b> SL	CLN
CALE -	.0300 600	CN	RN/L =	3.33				RUDDER =	15.000		
CALE -	.0300 690 ALPHAO 5.000	CN .36136	RN/L =	3.33 CLH 00444	CY .04457	CBL .00562	CYN ~.01572	RUDDER =  CL .35657	15.000 CD .06445	.09394	01655
CALE -	.0300 = .600 ALPHAO	CN	RN/L =	3.33 CLH	сү	CEL	CYN	RUDDER =	15.000 CD		CLN
CALE -	.0300 600 ALPHAO 6.000 8.000	CN .36136 .47080	RN/L = CA .02682 .01460	3.33 CLH 00444 00527	CY .04457 .04578 .04405	CGL .00562 .00562 .00624	CYN 01572 01594 01556	CL .35657 .46418	CD .06445 .07998 .09967	.00394 .00335 .00345	CLN 01622 01657 01641
CALE -	.690 ALPHAO 6.000 8.000 10.009	CN .36136 .47080 .57499 .68856	RN/L =  CA .02682 .014600001701506	3.33 CLH 00444 00527 .00078	CY .04457 .04578 .04405 .04230	CBL .00562 .00562 .00624 .00632	CYN 01572 01594 01556 01425	CL .35557 .46418 .55528 .67655	CD .06445 .07998 .09957 .12643	.00394 .00335 .00345 .00322	CLN 01622 01657 01641 01525
SCALE -	.0300 600 ALPHAO 6.000 8.000 10.009 12.009	CN .36136 .47080 .57499 .68856 .78941	RN/L =  CA .02682 .01460000170150601461	3.33 CLH 00444 00527 .00078 .00553	CY .04457 .04678 .04405 .04230 .04418	CBL .00562 .00562 .00624 .00632 .00522	CYN ~.01572 01594 01556 01425 01549	CL .35557 .46418 .55528 .67655 .76950	CD .06445 .07998 .09957 .12043	.00394 .00335 .00345 .00322 .00131	CLN 01622 01657 01641 01525 01629
SCALE -	.0300 600 ALPHAO 6.000 8.000 10.009 12.009 14.000	CN .36136 .47080 .57499 .68856 .78941 .89207	RN/L =  CA .02682 .0146000017015060146101031	3.33 CLH 00444 00527 .00078 .00553 .00627	CY .04457 .04578 .04405 .04230 .04418 .04564	CGL .00562 .00562 .00624 .00632 .00522	CYN ~.01572 ~.01594 ~.01556 ~.01425 ~.01549 ~.01616	CL .35557 .46418 .55528 .67655 .76950 .85035	CD .06445 .07998 .09967 .12643 .17680 .23597	.00394 .00335 .00345 .00322 .00131	CLN 01622 01657 01641 01525 01629 01670
CALE -	.0300 600 ALPHAO 6.000 8.000 10.009 12.009	CN .36136 .47080 .57499 .68856 .78941	RN/L =  CA .02682 .01460000170150601461	3.33 CLH 00444 00527 .00078 .00553	CY .04457 .04678 .04405 .04230 .04418	CBL .00562 .00562 .00624 .00632 .00522	CYN ~.01572 01594 01556 01425 01549	CL .35557 .46418 .55528 .67655 .76950	CD .06445 .07998 .09957 .12043	.00394 .00335 .00345 .00322 .00131	CLN 01622 01657 01641 01525 01629

INGN9241 ( 03 HAR 75 ) ORBITER DATA CATH 05 52 PARAMETRIC DATA REFERENCE DATA .600 ELEVON = 5.000 AILRON = SREF - 2690.0800 SQ.FT. XMR0 - 1109.0000 IN.XO EETAO = -5.000 PHI 000. YHRP = .0800 IN.YO LREF = 474.8100 IN. RUDDER -.020 ZMRP = 375.0000 IN.ZO eref = 935.6900 IN. .0399 SCALE = GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.35 MACH .680 CL CD CSL CLN CLH CY CBL CYN ALPHA0 CM CA .00929 -.00825 .08377 .04593 -.00815 .12378 .01010 -.00723 .35961 6.000 .36540 -.00334 .01189 -.00675 .45847 .09888 .01083 8.000 .46777 .03411 -.00356 .12069 .01465 -.00571 .56189 .11948 0.16.0 -.00915 .02011 .00130 .11976 10.000 .57401 .14876 .01578 -.00924 .01736 -.08578 .67169 .68785 .00589 .00604 .11567 12.000 eetoo. -.01039 .19587 .00521 .01009 .11881 .01221 -.00765 .76405 19.080 .72974 .01417 .11943 .01601 -.00824 .83824 .25724 .00735 -.010EB .01622 .67657 16.000 .38556 .00628 -.01103 .11811 .00938 -.08855 .93159 .01287 18.080 .98659 .02175 -.00019 .05211 .01078 .00110 .05359 -.00659 .00237 -.00131 .00123 .00022 CRADIENT (NGN025) ( 03 MAR 75 ) CAED 05 52 ORBITER DATA PARAMETRIC DATA REFERENCE DATA .080 SREF = 2899.0000 SQ.FT. 10MP = 1109.0000 IN.XO ELEVON = 5.080 AILRON = .000 PHI .000 BETAO = YMRP = .0800 IN.YO LREF o 474.8100 IN. RUDCER = .000 ZMRP = 375.0800 IN.20 EREF = 928.6800 IN. .0300 SCALE = GRADIENT INTERVAL -GN/L = 5.34 .00/ 12.00 MACH .600 CSL CLN CBL CYN CL CD CLH CY **ALPHAO** CN CA -.00005 .35073 .07646 -.00195 -.00025 .ZEEBD .03938 -.00370 .00526 +.00195 6.000 .00018 .08449 -.00005 .45436 .09155 -,80165 .02744 -.00059 -.00166 8.000 .46268 .00031 .11180 -.80149 -.00158 .00004 .55423 .01396 .00526 .00421 10.000 .55523 .00134 .65487 .14187 -.00112 .00070 .01164 .00259 -.00137 .00107 12.000 .67905 .75492 .19064 -.00192 .00037 .00409 -.00207 .00038 .77865 .00254 .01800 14.000 .00030 .83185 .25277 -.00179 .02144 .00427 -.00180 -.00021 16.000 .66930 .01369 .32693 -.00101 .000E9 .01734 .00339 -.00108 .00008 .93589 .02163 18.000 .99108 .00013 .00021 .00020 .05199 .01682 .00259 -.08041 .00009 .05347 -.08648 CRADIENT

The second secon

18.000

GRADIENT

.95758

.05289

.03651

-.00581

.03599

.00309

.00123

.00009

.00028

-.00061

.00014

.01037

.05123

.00029

TABULATED SOURCE DATA - CA20

PAGE 643 ORBITER DATA INGN9261 ( D3 MAR 75 ) CAZO 05 S2 PARAMETRIC DATA REFERENCE DATA XHRP = 1109.0000 IN.XO ELEVON = 5.000 AILRON = .000 SREF = 2690.0000 SQ.FT. PETAD -.000 , PHI .000 YHRP .0000 IN.YO LREE 474.8100 IN. BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO RUDDER = 15,000 .0300 SCALE = GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.33 MACH = .600 CBL CYN CŁ CD CSL CLN ALPHAG CA CLH CY CN -.01504 .00296 .09148 .00676 -.01442 .34716 .09538 .00521 6.000 .35523 .05857 -.01534 6.000 .46113 .04609 .00535 .64242 .00675 -.01454 .45023 .10982 .00466 -.01540 .04123 .00725 -.01436 .54963 .12919 .00465 .56372 .03179 .01153 10.000 -.01443 .03858 .00746 -.01316 .65899 .15853 .00455 12.000 .67755 .01805 .01743 .00514 -.01442 .74369 .20731 .00247 -.01547 .77175 .02123 .02369 .04109 14.000 .00545 -.01485 .82646 .26775 .00115 -.01578 .86825 .02957 .02755 .04215 16.000 .97067 .03802 .02732 .03926 .00746 -.01418 .91142 .33512 .00271 -.01579 18.000 -.00010 .600009 .00248 -.00050 .00013 .00020 .05174 .01044 GRADIENT .05348 -.00579 CA20 06 52 ORBITER DATA (NGN0271 ( 03 HAR 75 ) PARAMETRIC DATA REFERENCE DATA 5.000 AILRON = .000 XHRP - 1109.0000 IN.XO ELEVON = SREF - 2690.0000 SQ.FT. .000 BETAD = .000 PHI LREF = YHRP .0000 IN.YO 474.8100 IN. RUDDER = .000 BREF = 936.6800 IN. ZHRP 375,0000 IN.ZO SCALE \* .0300 RN/L = 3.31 GRADIENT INTERVAL -.00/ 12.00 MACH = .600 CLH CY COL CYN CL CD CSL CLN CA ALPHAO CN .34014 .09000 -.00195 -.00019 .05396 .00122 .00475 -.00192 -.80039 6.000 .34758 .00025 -.00215 -.00005 .44109 .18442 -.00213 8.000 .45133 .04202 .00579 .00396 .12396 -.00171 .00047 .55396 .02809 .01236 .00312 -.00176 .00016 .54066 16.600 .01967 .00093 -.00146 .00139 .64849 .15267 -.00114 .001ES 12.000 .66886 .01450 .80264 -.00199 .00843 .73378 .20027 -.00182 .00063 .76044 .01680 .02765 14.000 .03559 .00371 -.00165 -.000020 .80789 .25967 -.00165 .00033 .02693 16.000 .84817 -.00109 .00039 .63843 .33063 -.00091 .00071

GRADIENT

.05156

-.00688

TABULATED SOURCE DATA - CA20

PAGE 544 DATE 04 DEC 75 (RS0029) ( 03 HAR 75 ) ORSITER DATA CA20 07 52 PARAMETRIC DATA REFERENCE DATA .000 ELEVON -5.000 AILRON = XHRP = 1109.0000 IN.XO SREF - 2698,0000 SQ.FT. .000 BETAD -.000 PHI YHRP = .0000 IN.YO LREF 474.8100 IN. RUSDER = .000 ZMRP = 375.0000 IN.ZO 936,6800 IN. BREF = SCALE = .0300 GRADIENT INTERVAL -.00/ 12.00 RN/L -3.30 .600 MACH = CLN CEL CLH CY CBL CYN CL CD ALPHAO CN CA .00013 -.00176 .33879 .08919 -.00176 .00428 -.00005 .00005 6.000 .E4628 .05328 .00047 .10340 -.60193 -.00198 .00020 .43901 .00332 8.000 .44913 .84139 .00475 -.00151 .00053 .53932 . 12253 .55240 .02702 .01154 .00287 -.00158 .00031 10.000 .64741 .15153 -.000099 .00160 .01912 .00047 -.00133 .00155 .05477 .0:352 12,000 .00119 .73318 .19834 -.00187 .00202 -.08210 .00070 .01508 .02729 14.000 .75939 -.00187 .00049 -.600094 .60588 .25978 .03489 .00227 -.00193 .64599 .02651 16.000 .00055 .09302 .32878 -.00059 .00022 .08075 -.08891 .03522 .95567 .03519 18.009 .00028 .08014 .00025 .05131 .01031 -.00059 .000008 .05254 -.00555 .00320 GRADIENT (NSN029) ( 03 HAR 75 ) CAED **08 52** ORBITER DATA PARAMETRIC DATA REFERENCE DATA .000 5.000 AILRON = ELEVON -XMRP = 1109.0000 IN.X0 SREE - 2698.0080 SQ.FT. .020 PHI BETAD = .800 YMRP -.0000 IN.YO LREF 474.8100 IN. RUDDER = .000 ZMRP = 375.0000 IN.ZO 936.6900 IN. EREF = SCALE -.0300 .00/ 12:00 GRADIENT INTERVAL = RN/L -.600 MACH = CLN CYN CL CD CSL CLM CY E.L **ALPHAO** CN CA .09724 -.00225 .00020 .28575 .06684 .0190t .00069 -.60226 -.00003 6.600 .28435 .10944 -.00245 .00020 .00078 -.00245 -.00015 .39315 .05505 .02353 B.000 .39466 .12645 -.00198 .00042 .48152 .03057 .00848 -.00194 .00008 10.000 .49616 .04692 .00176 .15089 -.00146 -.00245 -.00189 .00142 .99570 .60427 .02592 .03965 12.000 .00055 -.00226 -.00000 .65165 .19359 -.00220 .00003 .GB890 .02806 .05060 14.000 -.00142 .00053 .00028 .73435 .24237 -.00156 .03857 .06240 -.00019 16.000 .77272 .30302 -.00528 -.00554 .76557 .07467 .01597 -.00285 -.00223 18.000 .62174 .05162

-.00049

.00345

.00009

.00023

.04991

.00015

.00830

BREF .

SCALE =

SREF = 2690.0000 SQ.FT.

474.8100 IN.

936.6800 IN.

.0300

REFERENCE DATA

PAGE 645 TABULATED SOURCE DATA - CARD (NGN930) ( 03 MAR 75 ) ORBITER DATA CV50 08 52 PARAMETRIC DATA ELEVON = 5.000 AILRON = .000 XHRP = 1109.0000 IN.XO .000 BETAO = .000 PH! .0000 IN.YO YHRP = RUDDER = .000 ZHRP . 375.0000 IN.ZO

RN/L = 3.33 GRADIENT INTERVAL = .00/ 12.00

MACH = .600 CLN CY-CBL CYN CL CD CSL ALPHAO CN CA CLH .09531 -.00239 -.00009 -.00236 .29336 .06412 .01684 Ser30. -.00034 .30171 6.000 .00037 -.00238 -.00241 .00003 .39769 .10769 .05266 .02232 .00526 8.000 .39910 .00545 -.09165 .00006 18491 .12438 -.00181 .00038 .03015 10.000 .49914 .03829 .15067 -.00183 .00121 .000080 .585 4 .00463 -.00284 12.000 .60437 .02558 .03945 .00051 .00696 -.00241 -.0800B .65595 .18157 -.00236.04970 14.000 .69106 .01483 .72117 .27697 -.00290 -.00011 -.00276 -.00090 .06659 .06117 .00221 16.000 .76933 -.00198 .00003 -.08571 .06454 .00657 -.00190 -.00059 .83969 .18166 .85473 18.000 .04872 .00914 .00011 .00020 .00378 -.00023 .00008 .00017 -.00659 GRADIENT .05640

> ORBITER DATA (NGN031) 1 03 HAR 75 ) CAZO 08 52

## PARAMETRIC DATA REFERENCE DATA

5.080 AILRON = .000 ELEVON = XHRP = 1103.0000 IN.XO SREF = 2690.0000 SQ.FT. .000 YHRP -.0000 IN.YO BETAO = .000 PHI 474.8100 IN. RUDDER = .000 936.6800 IN. ZHRP = 375.0000 IN.ZO BREF -SCALE = .0300

> .00/ 12.00 RN/L = 3.29 GRADIENT INTERVAL =

HACH .600 CSL CLN CYN CL CD CY CBL **ALPHAO** CN £Α CLH -.03435 -.00227 -.00002 .30535 6.000 -.06608 .01371 .00720 -.00226 -.00026 .30008 -.00241 .00025 .39716 .02975 -.00235 .00059 -.02501 .02892 .00568 .39743 0.000 .00040 .00005 .49530 .05694 -.00190 .02777 .00594 -.00194 -.03011 18.600 .49865 .10008 -.00191 .00138 .00995 .59761 -.02636 .03770 .00448 -.00216 12.000 .60536 -.00263 .00059 -.00267 -.000:5 .67630 .14476 -.02315 .04872 .00712 14.000 .69123 -.00339 -.00010 .75542 .15557 .00989 -.00323 -.00103 .05774 15.000 .76932 -.05771 -.00020 -.00064 .83959 .18055 -.00146 ~.09783 .06600 .00748 -.00133 18.009 .6545B .08017 .04880 .02153 .00008 .00020 .00394 -.00039 .00004 .85085 .00574 **GRADIENT** 

PAGE 646 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 (NGN032) ( 03 MAR 75 ) ORBITER DATA 08 55 CV50 PARAMETRIC DATA REFERENCE DATA .080 AILRON = 5,000 ELEVON . XHRP - 1103.0000 1N.XO SREF = 2890.0000 SQ.FT. .000 .000 PHI BETAO . .0800 IN.YO YMRP = LREF = 474.8100 IN. .000 2.70ER = 375.0000 IN.ZO ZMRP = 936.6800 IN. BREF = .0300 SCALE = RN/L = 3.31 GRADIENT INTERVAL = .00/ 12.00 CLN .600 CSL MACH = CD CL CBL CYN CLH CY .00075 CA **ALPHAO** CN -.00220 .28539 .09579 -.00227 .00052 .02056 .00573 .06532 8010B .29483 6.000 -.00206 .10221 .00078 .38530 .00507 -.00219 .05353 .02586 .39661 -.00171 .00105 0.000 .12534 .48308 .08975 .00699 -.00187 .03955 .03392 10,000 .49751 -.00141 .00199 .14980 .58528 .00165 -.00179.00485 .02484 .0448B .60364 .00132 12.080 -.00213 .19234 .69290 .00076 -.00239 .00700 .02626 .05480 .68974 -00120 14.000 -.00384 .73051 .24449 -.00326 .00031 .03366 .06624 .00802 .76960 S1200. 16.000 .30395 -.00204 .86448

> ( 03 HAR 75 ) (NGND33) **GREITER DATA** 09 52 CARD

.00139

.00017

.08018

.00014

.00896

.04972

## PARAMETRIC DATA REFERENCE DATA

-.00260

.00009

											000
							ELEVON =	5.000	AILRO	NI =	.000
	_	2690.0000 SQ.FT.	XMAP	•	1109.6000	IN.XO		-5.000	PHI		.000
		F020:000 Per					BETAO =	-2.000	rat	_	
1000	_	474.8189 IN.	YHRP		.0000	111.10					
	-				375.0000	IN 70					
DOCE	=	936.680D IN.	ZHRP	-	213.0000	I					

.00511

-.60009

.07262

.00393

.04048

-.08677

.65903

.05137

18.000

.0300

SCALE =

GRADIENT

8971 = 3.39	GRADIENT IN	TERVAL =	.00/	12.00	
-------------	-------------	----------	------	-------	--

насн		.600 ALPHAO 6.000 8.000 10.000 12.000 14.000 16.000 18.000 GRADIENT	CN .37578 .47872 .59434 .69821 .79861 .08372 .99533	CA .04146 .03019 .01765 .00431 .00524 .01830 .02232	-01007 00501 00501 00015 .00476 .00910 .01194 .01220	CY .06809 .06806 .06790 .06530 .06840 .05765 .06869	CBL 00121 .00093 .00372 .00542 .00028 00169 00282 .00128	CYN .01173 .01129 .01111 .01184 .01025 .01049 .00956	CL .36939 .46986 .57240 .69205 .77382 .84444 .93972 .05203	.08051 .09552 .11685 .14939 .19833 .26118 .32880	.00002 .00249 .00559 .00574 .00276 .00126 .00031	.01179 .01105 .01029 .01024 .00588 .01055 .01006
------	--	------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------	--------------------------------------------------------------------------	---------------------------------------------------------------------------	--------------------------------------------------------------------------	----------------------------------------------------------------------------------	---------------------------------------------------------------------------	------------------------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------

PAGE 547 TABLEATED SOURCE DATA - CA20 DATE 04 DEC 75 (NGND37) ( 03 MAR 75 ) ORBITER DATA CA20 747/1 OI SI PARAMETRIC DATA REFERENCE DATA BETAC -.000 ALPHAC = 4.000 XHRP = 1109.0000 IN.XO 2690.0000 SQ.FT. 3.000 ELV-09 = ELV-IB -.000 .0000 IN.YO 474.8100 IN. YMRP = LREF = .000 ELEVON = 5.000 BETAC = ZHRP = 375.0000 IN.ZO 936.6880 IN. BREF = .000 PHI .000 DX SCALE = .0380 .000 DΖ 7,500 ĐΥ GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.29 .600 HACH CSL CLN CD CLH CY CBL CYN CA CN **ALPHAO** -.00223 -.00108 -.00211 -.00131 .14768 .04443 -.00145 11559. .02875 6.000 .15151 .05646 -.00277 -.00036 -.00074 .26721 -.00269 .03036 -.00182 .01872 8.000 .27246 -.00017 -.00264 -.00062 .39885 .07598 .04039 -.00148 -.00257 .00557 .46598 10.000 .51711 .09936 -.00235.00067 -.00244 .00016 -.00231 -.01033 .04917 12.000 .52647 .00095 -.00130 -.00149 .62826 .13873 .00060 -.01753 .05533 -.00254 .64374 14.600 .00052 -.60018 .73650 .19308 -.00246 -.00050 -.00251 .05699 -,01741 16.000 .76119 -.00293 .00041 .26081 -.00852 .84892 .00029 -.00291 -.01429 .04880 .68797 18.000 .00000 .08000 .00000 .00880 .00000 .00808 .00000 .00000 .00000 .00000 GRADIENT ORBITER DATA (NGN039) ( 03 MAR 75 ) CAZO 747/1 OLSI PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 4.000 ELV-IB = XHRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. 5,000 ELV-OB . 3.000 ELEVON = YHRP = .0000 IN.YO LREF = 474.8100 IN. BETAD \* .000 10.000 ALPHAO = ZMRP = 375.0000 IN.ZO 936.6800 IN. BREF = .000 PHI .000 DX SCALE = .0380 .000 DZ 7,500 DY GRADIENT INTERVAL = -5.00/ 5.00 3.33 RN/L = HACH .600 CSL CLN CYN CL CD CLM CY ÇBL CA BETA .00422 .07859 .00563 .40855 .03891 -.01603 .00576 .00534 .41612 .00344 -10.000 .00344 .00242 .00300 .41428 .07970 -.01195 .00294 .03820 .00351 -7.000 .42184 .07950 .00152 .00141 .41530 .00124 .00166 -.00893 .00312 .03879 -5.000 .42283 .00070 .07930 -.00021 .00055 .41570 .04810 -.00609 -.00033 .00282 -3.000 .42319 .00050 .41571 .07940 -.00109 -.00117 .00030 .04050 -.00461 -2.000 .42321 .00291 -.00191 .00030 .41521 .07940 -.00805 -.00299 -.00193 .42272 .00298 .04090 -1.600-.00279 -.00010 .41730 .07910 -.00273 -.00068 .04010 -.00121 .42472 .00234 .000 .41602 .07930 -.00349 -.00020 -.00083 -.00022 -.00340 .00275 .04059 1.000 .42350 .07950 -.00429 -.00050 .41491 -.00413 -.00126 .04139 .00138 .00323 2.000 .42247 .07970 -.00511 -.00070 -.00490 -.00161 .91359 .00271 .04230 .42118 .00358 3.000 .41320 .07960 -.00691 -.00131 -.00252 -.00647 .04129 .00562 .42078 .00357 5.000 -.003B1 .40499 .07660 -.01221 -.00595 .01181 -.01132 .04211 .41251 .00409 10.000 -.00028 -.00040 -.00023 .00003 -.00083 -.00076 .00146 .00006 .00026 GRADIENT -.00022

PAGE 648

.00014

BA1C 0. 02	· ··										
			CARO	747/1	DI 51	Of	RBITER DATA		(NGN039	1AM EQ ) (	75 )
	REFERENC	E DATA						F	ARAMETRIC	DATA	
			- 1100 000	00.NI 00				ALPHAC =	4.000	ELV-1B =	.080
	690.0000 <b>SQ.</b>			IN.YO				ELV-C3 +	3.000	ELEVON =	5.000
	474.8100 IN.			00 IN.ZO				ALPHAD =	10.000	EETAO =	.000
	936.6800 IN.	ZMRP	= 375.000	10 114.20				PHI =	.000	ex =	.000
SCALE =	.0300							DY =	10.000	DZ =	7.500
			RN/L =	3.35 6	RADIENT INTE	RVAL = -5	.00/ 5.00				
MACH =	.600										•••
ristori	BETA	CN	CA	CLH	CY	CBL	CYN	CL	CD	CST	CLN
	-10.000	.42480	.00300	.03434	01374	00067	.00039	.41727	. 87970	00059	12000.
	-7.000	.43784	.60164	.03088	60855	00240	00054	.43844	.08019	00248	00019
	-5.000	.43205	.00127	.03371	00569	09355	00116	.43060	.08050	00371	00050 00100
	-3.000	.63928	.00070	.03540	00300	00474	00189	.43190	.08020	00500	
	··e.900	.44081	.00021	.03551	00220	00539	00221	.43349	.08000	~.00570	00120
	-1.000	.43855	.00059	.03871	00149	00606	00244	.43119	.08000	08648	00130
	.000	.43874	00004	.03989	00052	00868	00265	.43149	.07941	0070B	00159
	1.000	.43764	00017	.04065	60000	~.00735	00398	.43843	.07910	00779	00170
	2.000	.43624	.00007	.04398	.00010	00793	00329	.42901	.07910	00839	00160
	3.000	.43591	.08001	.04462	.00659	00267	00374	.42869	.07900	00921	00210
	5.006	.43264	.08074	.04920	.00034	01023	00460	.42533	.07918	01090	00267
	10.000	.42805	.00209	.05293	00211	01524	00730	.41839	.0805 <b>0</b>	01631	80440
	GRADIENT	00051	00007	.00157	.00060	00065	00033	08859	00017	00071	00020
			0122	747/0	OI SI AT38	AT39 £	RBITER DAT		(NGN84	O) (03 M	IR 75 }
			CAED	74770	OI 31 X130	N133 C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	REFEREN	CE DATA							PARAMETRIC	DATA	
				٧٨				ALPHAC =	.000	BETAC =	.080
	2690.0000 S <b>Q</b>			OX.NI 081				ELV-:3 =	.000	ELV-C9 =	3.000
LREF =	474.8100 IN							ELEVON =	5.000	MACH =	.600
erif =	936.6800 IN	. ZMRP	* 375.00	108 IN.ZO				BETAO =	.000	PHI =	.000
SCALE =	.0300							DX =	.000	DY =	.000
			RN/L -	3.37	GRADIENT IN	ERVAL = -	1.00/ 4.00	ı			
ALPHAO =	9.000										C+ 11
- FET 1000	OZ	CN	CA	CLM	CY	CBL	CYN	CL	CD	CSL	0069B
	.000	.38559	.01531	.04836	00292	00341	00147	.37971	.06983	80358	
	3.009	.38529	.01352	.04035	00242	00299	00128	.37966	.06701	00313	00885
	7.500	.38700	.01261	.03104	00164	00269	00123	.28148	.08635	00274	00085
	15.000	.39473	.01350	.02320	00114	00243	00107	.38901	.05930	00256	00072
	30.000	.46931	.01438	.01359	00021	00221	00867	.40233	.07107		00035
	45.000	.41765	.01539	.00781	.00857	00235	00120	.41137	.07369		00056
	60.000	.43999	.01521	01012	.00483	00085	.00113	.43358	.07629		.00124
		00010	00000	- 00267	.00017	.00014	.00006	00002	00060	.00015	.00004

.00017

-.00267

-.00060

-.08010

GRADIENT

TABULATED SOURCE DATA - CAZO DATE 04 DEC 75

69.000

GRADIENT

.82190

.00289

-.03630

.00046

-.00177

.00031

-.000020

CA20 747/0 O1 SI AT38 AT39 ORBITER DATA (NGN041) ( 03 MAR 75 ) PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 PETAC = .000 - 1109.0000 IN.X0 XHRP 2690.0000 SQ.FT. 3.000 .000 ELY-IB \* ELY-08 -.0000 IN.YO YMRP 474.8100 IN. .600 ELEVON = 5.000 MACH 375.0000 IN.ZO ZMRP 935.6800 IN. .000 .000 PHI = OATES .0300 SCALE = .000 0x .000 DY RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00 ALPHAO = 12.000 CLN CYN CŁ CD CSL CLH CY CBL CA ĐΖ CN -.00078 .54378 .07207 -.00344 -.00006 .05798 -.00105 -.00335 -.04257 .54688 .080 .07101 -.00302 .00013 -.00050 .54073 .05669 -.00058 -.00298 3.000 .54368 -.04297 -.00257 .80020 .07207 .05109 -.00039 -.00255 -.00033 .54641 .54945 -.04311 7.500 -.00225 -.00010 .56540 .07581 -.00222 .00037 -.04361 .04100 -.00024 .56979 15.000 .08295 -.00199 .00079 .59178 .00036 -.04190 .03296 .00059 -.00211 30.000 .59610 -.00239 .00889 -.00252 .00037 .61201 .08710 .00977 .61675 -.04205 .02555 45.080 .00139 .00084 .62140 .08927 -.00250 -.00273 .62639 -.04168 .02095 .00247 60.000 .00814 .00005 -.00102 -.00035 -.00013 -.00043 .00016 .00012 .00009 **GRADIENT** -.00107 ( 03 MAR 75 ) (NGN042) 01 St AT38 AT39 ORBITER DATA 747/0 PARAMETRIC DATA REFERENCE DATA BETAC = .000 ALPHAC = 0.000 XHRP 1169.0000 IN.XO 2690.0000 SQ.FT. 3.000 ELV-18 = .000 ELV-09 = .0000 IN.YO 474.B100 IN. YHRP LREF ELEVON = 5.000 MACH .600 ZHRP 375.0000 IN.ZO 935.6800 IN. BREF = .000 BETAD = .000 PHI SCALE = .0300 .000 DΧ .000 DY GRADIENT INTERVAL = -1.00/ 4.00 3.33 RN/L = ALPHAO = 16.000CSL CLN CYN CŁ CD CY CSL. CA CLH DZ CN .00005 .00101 .65265 .13275 -.00023 .00098 -.05229 .08722 -.00375 .66396 .000 .00030 . 13546 -.00086 .00063 .65061 .08191 -.00284 -.00108 .67263 -.65691 3.000 .00076 -.00224 .00015 .67299 .14215 -.09212 -.04886 -.00152 .07419 7.500 .68610 -.00259 .00050 .70010 .15331 -.00265 -.00014 -.04569 .06492 -.00013 15.000 .71524 -.00342 -.00031 .17301 .74944 -.04027 .04841 .00241 -.00328 -.00095 .76909 30.000 -.00356 -.00005 .00355 -.00340 -.0B164 .78006 .1850B .03784 -.03710 45.000 .86085 .00024 -.08077 .00007 .19165 -.00362 .00568 -.00355 .02893

PAGE 649

.00124

.00265

-.00012

-.00030

-.00003

DATE 69 DEC 75 TABULATED SOURCE DATA - CA20

(NGN943) ( 03 MAR 75 ) CA20 747/0 OI SI AT39 AT39 ORBITER DATA PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC --5.000 XMEP - 1169.0000 IN.XO SREE = 2690,0000 SQ.FT. .000 ELY-08 = 3.000 ELV-18 = .0000 IN.YO LREF = 474.8160 IN. YHRP = MACH .600 5.000 ELEVON = 375.0000 IN.ZO 936.6880 IN. ZMRP = eref -.000 EETAO --5.000 PH1 .0300 SCALE -.000 .000 DY DX GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.34 ALPHAO - 12.000 CSL CLN CD CLH CY CBL CYN CL CA DΖ CN .01478 .01687 .57080 .07540 .01161 .04199 .00829 -.04492 .03957 .000 .57401 .07337 .00999 .01715 .59301 .00821 .01895 .03319 .03924 .56596 -.04529 3.000 .00787 .01755 .07452 .00405 .01881 .57046 .02071 .64120 -.045717.500 .57349 .01712 .08605 .00236 .01800 .59016 .07897 .0104B .84686 -.04546 .59369 15.089 .61897 .08618 .00457 .01723 .01780 .05011 .00089 .00091 .62336 -.04440 30.880 .09092 .00375 .01709 .63804 .01749 -.08571 .05173 .00012 -.04372 45.000 .64300 .01740 .09369 .00320 -.00049 .01769 .64817 .05250 -.01018 -.04312 60.000 .65348 .00079 -.00260 -.00068 -.00054 -.00069 .00066 -.08092 -.00269 -.00012 -.00213GRADIENT (NGN044) ( 03 MAR 75 ) 747/0 02 S1 AT38 AT39 ORBITER DATA CARD PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = -5.000 10KP = 1109.0000 IN.XD SREF = 2630,0000 SQ.FT. 3.000 .008 ELV-09 = ELV-IB = .0000 IN.YO LREF - 474.8100 IN. YMRP -.600 5.000 MACH = ELEVON = ZMRP = 375.0000 IN.20 EREF = 936.6900 IN. -5.00D PHI .000 RETAC = SCALE = .0300 .080 .000 DY DX RN/L = 3.33 GRADIENT INTERVAL = -1.60/ 4.00 ALPHAO = 12.000 CLN CSL CL CD CLM CY CBL CYN ÇN CA ĐΖ . 12797 .00826 .55302 .01328 .05271 .01127 .01084 .57733 .00811 .04681 .000 .01141 .00919 .12486 .00925 .01135 .54796 .56194 .00821 .04724 .05192 3.000 .01008 .12550 .00917 .00689 .01169 .54728 .00697 .04439 .05331 7.500 .56141 .01185 .55247 .13016 .00735 .01055 .03907 .05631 .06500 15.000 .57724 .01037 .01071 . t3752 .00578 .58978 .06002 .00343 .01169 .01189 .03076 .69548 30.000 .00495 .01050 .01140 . 14253 .05113 .00264 .60778 .62413 .01305 .02475 45.000 .01050 .61710 .14517 .00431 10200. .01126 .08267 .63379 .01370 .02085 60.000 .00031 -.00103 -.00062.00017 -.08502 -.00067 .00003 .00014 -.00026 GRADIENT -.00513

TABULATED SOURCE DATA - CA20

PAGE 651 (NGN045) ( 03 MAR 75 ) CA20 747/1 OI SI AT38 AT39 ORBITER DATA PARAMETRIC DATA REFERENCE DATA ALPHAC = .000 BETAC -.000 XHRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. ELV-IB -.000 ELV-08 = 3.000 YHRP .0000 IN.YO LREF = 474.8100 IN. .680 ZHRP = 375.0000 IN.ZO ELEVON = 5.000 MACH 936.6800 IN. eref = .000 BETAO . .000 PH1 SCALE = .0300 DX .000 DY .000 RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00 ALPHAG = 8.000 CLN CYN CL CD CSL CY CEC CA CLH DΖ CN -.00009 -.00291 -.08049 .07160 -.00295 .000 .42229 .01295 .04308 -.00246 .41636 .01272 -.00265 -.00091 .40730 .07008 -.00275 -.00053 .03998 -.00141 3.000 .41309 .07036 -.00243 -.00062 -.00046 -.00232 -.00095 .40940 .01270 .03153 7.500 .41521 -.00221 -.0864I .01246 .02103 -.00021 -.00213 -.00072 .41808 .07134 15.000 .42394 -.00010 -.00196 -.00038 .42627 .07373 -.00200 .01368 .01254 .00076 30.000 .43238 -.00220 -.00007 -.00217 -.00037 .43351 .07478 45.000 .43969 .01372 .00453 .00139 .00091 .08371 -.00070 .00102 .02175 .00525 -.00093 .43929 .00578 60.000 .44666 .00087 -.00015 .00009 -.00014 -.00303 -.00050 **GRADIENT** -.00307 -.00008 -.00164 .00035 (NGN046) ( 03 MAR 75 ) CA20 747/1 O1 S1 AT3B AT39 ORBITER DATA PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = .000 XHRP = 1109.0800 IN.XO SREF = 2690.0000 5Q.FT. 3.000 YHRP = .0000 IN.YO ELV-IB = .000 ELV-09 -474.8100 IN. LREF 375.0000 IN.ZO ELEVON = 5.000 MACH .600 BREF = 936.6900 IN. ZHRP = BETAO = .000 PHI .000 SCALE = .0360 .000 DX = .000 DY GRADIENT INTERVAL - -1.00/ 4.00 RN/L = 3.33 ALPHAO \* 12,000 CSL CLN CA CLH CY CBL CYN CL CD ĐΖ CN .00021 -.00276 .00080 .05169 -.00294 -.00286 .56598 .1142B -.80610 .000 .57835 .00023 .56455 .11314 -.00266 08000. -.00238 -.00277 3.080 .57574 -.00671 .05915 -.00260 .00026 .57052 .11320 -.00249 .00080 -.00789 .05160 -.00199 7.500 .59159 .11662 -.00214 .00087 -.00178 -.80227 .00041 .58950 ~.00849 .04047 15.080 .60087 .61393 .12246 -.00225 es:00. 30.000 .62588 -.00784 .03099 -.00078 -.00247 .00079 .00055 .62844 .18814 -.00249 .00110 -.00727 .02460 -.00027 -.00287 45.000 .64093

.00076

.00019

.02049

-.00085

-.00689

-.00020

.64823

-.00087

69.608

GRADIENT

-.00278

.00003

.00105

.00001

.63550

-.000B1

.12804

-.0003B

-.00250

.00003

.00161

....

PAGE 652

DATE 84 DEC 75	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
		CYSO	747/1 0	1 SI AT38 /	\T39 0	RBITER DATA		(NGN047	) ( 03 MAF	? 75 )
REFERENCE	DATA						Р	ARAMETRIC	DATA	
SREF = 2690.8000 SQ.F LREF = 474.8100 IN. EREF = 935.6800 IN. SCALE = .0300	T. XHRP YHRP		0 1N.XO 0 IN.YO 0 IN.ZO				ALPHAC = ELV-IB = ELEVON = BETAO = OX =	.000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 .000 .000 .000
		RN/L =	3.25 G	RADIENT INTE	RVAL = -1	.607 4.69	٠			
ALPHAO = 16.000 OZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .69998 .69400 .71015 .74061 .78507 .61530 .93263 00169	CA 01533 01310 01241 01022 00495 00210 00055 .00075	CLM .07494 .08034 .07381 .06132 .04650 .03600 .02921 .00180	CY 00229 00139 00050 .00056 .00295 .00375 .00544 .00030	CBL 00250 00226 00253 00289 00328 00326 00350	CYN .00055 .00025 .00001 00033 00095 00092 00010	CL 199 . 73 .69808 .71474 .76602 .76429 .80053 00212	CD .17820 .17870 .18382 .19431 .21163 .22271 .22897	CSL 00226 00218 00242 00289 00338 00350 00359	CLN .00121 .00085 .00071 .00043 .00011 00000 .00017
		CAED	747/1	01 S1 AT38	AT39	ORBITER DATA		(NGN04)	AM ED ) (E	R 75 1
REFERENCS	E DATA						(	PARAMETRIC	DATA	
EREF = 2650.0000 SO.F LREF = 474.0100 IN. GREF = 935.6800 IN. SCALE = .0300	FT. XXEC YMEP ZMRP	.00	00 IN.XO 80 IN.YO 80 IN.ZO				ALPHAC = ELV-1B = ELEVON = EETAO = DX =	4.000 .000 5.000 -5.000 .000	EETAC = ELV~CB = MACH = PH1 =	-5.000 3.000 .600 .000
		RN/L =	3.34 0	RADIENT INT	RVAL	1.00/ 4.00				
ALPHAD = 12.000 DZ .000 3.000 7.580 15.000 30.000 45.000 60.000 GRADIENT	CN .60501 .59737 .60596 .62574 .65111 .65594 .67350	CA 02062 02116 02194 02208 02145 02078 02019 00018	CLM .03814 .03274 .01950 .00882 00134 00762 01172 00180	CY .04361 .04656 .04292 .04765 .05173 .05316 .05379 08098	CBL .00939 .00709 .00484 .00297 .00153 .00845 00015		CL .59508 .59871 .59926 .61665 .64134 .65570 .65337	CD .10562 .10350 .10473 .10850 .11439 .11913 .12025	CSL .01277 .01098 .00972 .00572 .00596 .00416 .00361	CLN .01492 .01755 .01774 .01733 .01742 .01739 .01769 .00063

GRADIENT

-.00171

-.00029

## TABULATED SOURCE DATA - CA20

PAGE 653 (MGN049) ( 11 MAR 75 ) CA20 747/1 01 51 ORBITER DATA PARAMETRIC DATA REFERENCE DATA .600 BETAC = .000 ELV-18 = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. XHRP YHRP .0000 IN.YO ELV-09 \* 3.000 ELEVON = 5.000 474.8100 IN. MACH .600 BETAD .000 ZHRP 375.0000 IN.ZO BREF = 935.6900 IN. .000 DY .000 SCALE = .0300 PH! ALPHAC = .000 DΧ .000 .00/ 12.00 RN/L = 3.24 GRADIENT INTERVAL = ALPHAO = 6.000 CYN CSL CLN CA CLH CY CBL CŁ CD ĐΖ CN -.00243 -.00121 -.00119 -.00229 -.00145 .24705 .05448 .25140 .02835 .64677 .000 .03306 -.00057 -.00208 -.00153 .25789 .05364 -.00223 -.00130 3.000 .26208 .02639 -.00035 -.00211 -.00120 .26599 .05396 -.00222 -.00897 .27017 .02586 .02504 7.500 -.00084 -.00199 -.00105 .27855 .05440 -.00209 .02499 .01513 .00010 15.000 .28271 .02650 .00752 .00144 -.00163 -.08840 .29085 .05722 -.00166 -.00023 30.000 .29524 -.08469 .00011 -.08970 .35010 .05591 -.00038 .01900 -.02636 .00165 45.000 .35410 -.03773 -.01210 .01195 -.03669 .62703 .03083 .00806 60.000 .62692 -.03468 -.18867 .00245 -.00032 -.00281 .00011 .00002 .0000% .00247 -.00006 .00003 .00003 GRADIENT 3.31 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAO = 10.000 CBL CYN CL CD CSL CLN DZ CN CA CLH CY -.00249 -.00039 .49284 .09912 -.00252 .00005 .07601 -.00167 .000 .50083 .00219 -.00016 -.00223 .50711 -.00164 .05914 -.00160 -.00217 -.00055 .49969 .08544 3.000 -.00305 -.00117 -.00202 -.00043 .50341 .08567 -.00206 -.000008 7.500 .51064 .04427 -.00179 .00013 -.00178 -.00018 .51024 .08515 .51744 -.00375 .03141 -.00097 15.000 .01933 .00030 -.00162 -.00001 .51697 .08759 -.00160 .00027 30.000 .52432 -.00351 -.00036 -.00069 .52242 .08866 -.00192 .01191 .00085 -.00183 45,000 .52988 -.00341 -.00268 .54018 .09057 -.00177 60.000 .54770 -.0046! .00193 .00195 -.00128 -.00295 -.00414 .00807 .00006 -.00000 .00136 -.00044 .00006 -.80001 GRADIENT .00127 -.00867 .00/ 12.00 RN/L = 3.27 GRADIENT INTERVAL \* ALPHAO = 14.600 CY CBL CYN CL CD CSL CLN ΩZ CN CA CLH -.00339 -.08912 .74409 .18064 .76569 -.00474 .06870 .00052 -.00326 -.00094 .000 -.00332 -.08028 .05859 .00090 -.00316 -.00105 .74063 .17638 3.000 .76130 -.00884 .04671 .00183 -.00315 -.00129 .73338 .17111 -.00337 -.00049 .75299 -.01140 7.500 .00183 -.00304 -.00108 .72674 .16917 -.00321 -.00031 .03536 15.000 .74584 -.01254 -.00094 .72264 .16730 -.00306 -.00020 -.00292 39.000 .74184 -.01254 .02456 .00259 -.00065 .72050 .16666 -.00313 .00010 .739+1 -.01260 .01930 .00305 -.08305 45.000 .01878 .09400 -.00336 .00093 .71301 .16551 -.00304 .00171 .73107 -.01190 69.000 .00018 .00001 -.00005 -.00144 -.00126 .00000 -.00005 -.00291

	CAZO	747/1	01 51	ORBITER DATA	(NGN050) ( 11 HAR 75 )
precomice DITA					PARAMETRIC DATA

	REFERENCE	DATA						5	PARAMETRIC	DATA	
LREF =	690.0000 SQ.F 474.8100 IN. 936.6600 IN. .0300	YMRP	= .08	00 IN.XO 00 IN.YO 00 IN.ZO				BETAC = ELV-0B = MACH = PHI = ALPHAC =	.000 3.000 .600 .000	ELV-18 = ELEVON = BETAG = DY = DX =	.000 5.000 .000 .000
			RN/L =	3.25 (	RADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAO =	6.000										
,,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DZ	CH	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.23585	.02560	. 03414	00194	80213	00167	.23288	.05021	00229	00144
	3.008	.24721	.02432	.02429	00154	00206	00143	.24332	.05003	00220	00120
	7.500	.25914	.02308	.01531	00089	00195	00148	.25530	.05004	00210	00127
	15.000	.27009	.02394	.01071	00046	00187	00139	.26610	.05204	00201	00119
	39.000	.28752	.02491	.00378	00041	00166	00039	.28334	.05483	00169	00021
	45.000	.35924	.00322	05098	00585	00841	.00502	.36688	.04180	.00012	.00504
	60.000	.66177	10619	27501	03716	.00693	.02823	.66924	03643	.00974	.02736
	GRADIENT	.00295	00033	00247	.00014	.00002	.00002	.00296	00002	.00003	.00002
ALPHAO =	10.000		RN/L =	3.25 (	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAU W	10.000 DZ	CN.	CA	CLM	CY	CBL	CYN	CL	CD	CSL	CLN
	.080	.46569	.00283	.07189	08251	00255	00825	.45812	.09366	00255	.00019
	3.000	.47645	00080	.05548	00169	00237	00049	.46936	.08154	00242	00007
	7.500	.46937	00384	.03814	00111	00215	00063	.48161	.08102	00223	00824
		.49267	009911	.02702	00077	00192	00048	.49181	.08254	00197	00014
	15.000	.9557	00357	.01651	.00013	00181	00010	.50437	.08531	00180	.00022
	30.000	.52261	00499	.00791	.00026	00199	.00864	.51553	.06585	00196	.0003B
	45.000		01141	-,00918	00021	00209	.00073	.53643	.08335	00193	.0010B
	60.000	. 54473 . 00299	00087	- 00445	.00018	.00005	00005	.00310	00034	.00004	00006
	GRADIENT	.00255	00007	-,00110	1000.0						
			ENVE =	3.23	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO =	14.080										<b></b>
*- <u>-</u>	DZ	CN	CA	CLH	CY	CBL	CAN	CL	CD	CSF	CLN
	.080	.70651	06987	.08218	.00069	00282	00072	.69767	. 16231	00291	00002
	3.000	.71012	01682	.07103	.00100	00280	00092	.69165	.16130	00254	00021
	7.500	.71620	01574	.05233	.00118	00272	00105	.69973	. 15800	00290	00037
	15.000	.72124	01639	.03746	.00116	08245	00082	.70378	. 15959	00250	00020
	30.000	.73041	01554	.02437	.00213	00248	00091	.71255	. 16133	00261	00019
		77051	- 0111011	02107	00252	00261	00878	.71221	. 16310	00272	000:2

.02107

.02367

-.00399

-.01464

-.00999

-.00093

.73051

.72342

.00130

45.000

69.000

GRADIENT

.00252

.00445

.00007

-.00251

-.00280

.00001

-.00078

-.00080

-.00004

.71221

.70435

.00148

.16310

.16532

-.00059

-.00291

.00000

-.00009

~.00005

DATE 04 I	DEC 75
-----------	--------

## TABULATED SOURCE DATA - CA20

			CA20	747/1	01 51		ORBITER DATA		(NGHB5	1) (11 M	AR 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF = 47	90.0000 SQ.F1 74.9100 IN. 36.6900 IN. .0300	YHRP		0 IN.X0 0 IN.YO 0 IN.ZO				BETAC = ELV-OB = MACH = PHI = ALPHAC =	.000 3.000 000 .000	ELV-1B = ELEVON = BETAO = DY = DX =	.000 5.000 .000 .000
			RN/L =	3.24	GRADIENT IN	ITERVAL =	.00/ 12.08				
ALPHAO ≃	6.000 DZ .000 3.000 7.500 15.000 30.000 45.000 68.000 GRADIENT	CN .24824 .25168 .25921 .26924 .28464 .31478 .38625 .00134	CA .01677 .01655 .01939 .02044 .02183 .03241 .07075 .00034	CLH .00372 .00500 .00433 .00272 .00116 .00437 .02710	CY0005800039000350003400094000370085100003	CBL 00215 00188 00182 00179 00185 00049 .00448	CYN0020500178001580012800090 .00074 .00612 .00006	CL .24512 .24836 .25477 .26553 .28080 .30967 .37674	CD .04263 .04476 .04627 .04848 .05146 .06514 .11074 .00847	CSL 00235 00206 00197 00191 00193 00041 .00509	CLN 00181 00157 00138 00108 00070 .00079 .00582 .00006
			RN/L =	3.25	GRADIENT IN	HERVAL =	.00/ 12.00				
	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .46623 .47166 .47933 .48911 .50376 .51341 .52742 .00174	CA0052500699007790067100578005180052300033	CLM .03634 .03124 .02498 .01955 .01355 .00294 .00273 00152		CBL00200002230022400201001170021500003	CYN0012800096000930007100020000170003200006	CL .46005 .46571 .47340 .48285 .49711 .50651 .52032 .00177	CD .07579 .07502 .07556 .07633 .08178 .06405 .08544	CSL 09219 00237 00235 00210 00168 00211 00216 00002	CLN 00092 00056 00042 00035 .00012 .00020 .00070
	14.000  DZ  .000  3.000  7.500  15.000  30.000  45.000  GO.000  GRADIENT	CN .69921 .70059 .70365 .70936 .71846 .72417 .72449 .00050	CA 02200 02491 02638 02333 01982 01863 01855 00056	CLM .03647 .038971 .03684 .03092 .02305 .01858 .01621	46100. 65000. 61100. 85500.	CBL 00451 00323 00240 00252 00266 00262	CYN00418002030007000083000760007700079	CL .69377 .69591 .69913 .69296 .70191 .70716 .70745	CD .14781 .14531 .14463 .15459 .15712 .15727	CSL 00539 00363 00250 00263 00263 00276 00293	CLN 00255 00118 00010 00022 00013 00009 .00037

			CA28	747/1	01 51	•	ORBITER DATA		(NGN85	2) ( 11 HA	R 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF -	590.0000 SO.F 474.8100 IN. 935.6800 IN. .0300	т, хняр үнэр хняр	000	30 IN.XO 00 IN.YO 00 IN.ZO				ELV-IB = ELEVON = EETAO = PHI = DX =	.000 5.000 .000 .000	ELV-OB = MACH = EETAC = DY = ALPHAC =	3.000 .600 .000 .000 4.000
			RN/L =	3.22	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	6.000							~	<b>CD</b>	CSL	CLN
	DZ	CN	CA	CLM	CA	CBL	CYN	CL	CD		00174
	.000	. 14167	.02956	.03282	.00021	00217	00198	. 13781	.04421	00226 00222	00174
	3.000	. 15378	.02958	.02826	.00025	00205	00173	. 14984	.04549	00215	00125
	7.500	. 17027	.02941	.02348	.00840	00201	00147	.16626	.04705	00203	00128
	15.000	. 19772	.02813	.01577	.00099	00188	00149	.19375	.04854	00158	.00005
	30.000	.23297	.02943	.01235	.00057	00157	08012	.22862	.05362		00015
	45.000	.26938	.02624	00219	.00169	00093	00025	.28505	.05534	00095	00013
	60.000	.42458	.01246	05914	.01292	00187	00660	.42135	.05692	00255	.00005
	GRADIENT	.00280	00002	00123	.00003	.00002	.69807	.00378	.00038	E0000.	.00000
			RN/L ■	3.24	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000			<b>~</b> u	CY	CEL	CYN	CL	CD	CSL	CLN
	DZ	CN	CA	CLH	~.08039	00285	00086	.37859	.07303	00296	00035
	.000	.38552	.00518	.05458	00024	00273	00099	.38986	.07381	00285	00041
	3.000	.39676	.00499	.04707	00008	00252	00092	.40597	.07479	00264	00047
	7.500	.41279	.00316	.03629	.00000	00226	60054	.42411	.07719	00233	00023
	15.000	.43107	.00237	.02071		00201	00018	.45219	.08155	00201	.00017
	30.000	.45948	.00178	.02051	.00038		00041	.47252	.08458	00220	00007
	45.000	.48003	. 80125	.01400	.00046	00216 00262	00111	.50003	.08797	00277	00054
	60.000	.50771	00020	.00392	.00132		000111	.00365	.00023	.00004	00002
	GRADIENT	.00363	00040	00244	.08004	.60084	00001	.00200	.00045	.0000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.60				
ALPHAO =	14.080							<b>.</b>	-00	ec.	CT N
	DZ	CN	CA	CLM	CY	CEF	CYN	CL	CD	CSL	.80098
	.080	.62931	00B35	.08464	00115	00245	.00009	.61264	. 14414	00235	.00033
	3.000	.63731	01191	.08900		00202	00016	.62126	. 14262	00200	.00018
	7.500	.64746	01427	.05471	00035	00187	00029	.63169	. 14279	00189	
	15.000	.65977	01446	.04446		00184	00025	.64367	. 14558	00164	.00028
	30.000	.69220	01442	.03129		00209	00035	.65542	.15105	00211	
	45.000	.6935:	01392	.02548		00217	60031	.67627	.15427	00218	ES000.
	60.000	.69975	01484	.02192		00205	.00062	.68139	.15543	00164	.00109
	GRADIENT	.00241	00077	00393	.00010	.00007	00005	.00252	00016	.00006	00006

DATE 04 DEC 75 TABULATED SOURCE DATA - CA20

			CAEB	747/1	01 51		ORBITER DATA		(NGN05	3) (11 MA	R 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300		00	00 IN.XO 00 IN.YO 00 IN.ZO				ELV-IB = ELEVON = BETAO = PH1 = DX =	.000 5.000 .000 .000	ELV-08 = MACH = BETAC = DY = ALPHAC =	3.000 .600 .000 .000 4.000
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	6.000										
ALI IDIO	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.13234	.02813	.01922	08061	00203	00210	. 12867	.04181	00224	00129
	3.000	. 14657	.02735	.01462	00083	09191	00184	. 14291	.04252	00209	00163
	7.500	.16399	.02705	.01110	00078	00193	00163	.16027	.04405	00209	00142
	15.000	.18774	.02723	.00834	00014	00184	00154	. 18386	.04671	00199	00134
	30.000	.23295	.02837	.00539	.00110	00169	00124	.22870	.05257	00181	00105
	45.000	.31902	.03329	01142	.01162	00504	00453	.31390	.06645	00548	00398
	60.000	.48109	.04922	05099	.04191	01617	01532	.47331	.09923	01768	01355
	GRADIENT	.06419	00014	00106	00802	.00801	.00006	.00418	.00030	.00002	.00005
			RN/L ×	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000		_	<b>-</b>			<b>5</b> 101	~	CD	CSL	CLN
	DZ	CH	CA	CLH	CY	CBL	CYN	CL Z:010	.07024	00285	000E5
	.010	.35608	.00854	.04974	00281	00269	00115	.34919 .35713	.07019	00283	00069
	3.000	.37374	.00538	.03515	00262	00246	00113 00097	.38497	.07173	00248	00055
	7.500	.39158	.00379	.02768	00242	00235 00208	00097	.40734	.07455	00218	00035
	15.000	.41410	.00269	.02126	00230 00175	00208	00019	.43990	.07546	00175	.00011
	30.000	.44702	.00166	.01559	08074	00211	00019	.46354	.08313	00215	00001
	45.000	.47093	.00137	.01065	08074	00294	00039	.46962	.08736	00304	00027
	60.000	.49735	.00101 00051	.00448 00285	.00005	.00004	00002	.00471	.00021	.0005	.00002
	GRADIENT	.00467	00051	00500	.0000	.00001	.00002	100/11			
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.59899	01299	.09386	00517	00140	.00884	.57570	.13015	00116	.00116
	3.000	.69678	01783	.06433		00097	.00069	.59307	.12549	00078	.00091
	7.500	.62408	02031	.04920		00046	.00072	.61846	.13127	00027	.00591
	15.000	.64381	01989	.03875		00068	.00076	.62950	. 13545	.00011	.00076
	30.000	.67071	01804	.02795		08092	.00037	.65515	. 14476	00083	.00059
	45.000	.68511	01689	.02330		00130	.00029	.65977	.14963	00119	.00059
	60.030	.69281	01697	.01839		00155	160091	.67614	. 15109	00129	.00128
	GRADIENT	.08448	00094	00452	.00008	.00013	00002	.00457	.00017	.00012	00004

CA20 747/1 01 S1

ORSITER DATA

(NGN054) ( 11 MAR 75 )

	REFERENCE	BATA						F	ARAMETRIC	DATA	
LREF = 4	550.0000 5Q.F •74.8100 IN. 935.6800 IN. .0300	T, XHRP YHRP	.08	00 IN.XO 00 IN.YO 00 IN.ZO				ELV-18 = ELEVON = EETAD = DY = DX =	.000 5.000 000 000 000	ELV-03 = MACH = FHI = EETAC = ALFHAC =	3.000 .600 .000 .000
			RN/L =	3.25 0	RADIENT INTE	RVAL -	.00/ 12.00			•	
ALPHAO =	6.000								en.	CSL	CLN
74, 1310	DZ	CN	CA	CLH	CY	CS/L	CAN	CL	CD		00204
	.800	.13378	.02454	.00374	00078	00201	00226	.13848	.03339	00224	00190
	3.000	. 14618	.02421	.60130	00072	00192	00211	. 14285	.03936	08213	
	7.500	.16269	.02418	~.00033	-,08059	00188	00191	. 15927	.04105	00205	00170
	15.000	.18429	.02483	.00072	00029	00103	00155	.18069	.04396	0019B	00135
	30.000	.22274	.02510	.00882	.00052	-,00157	00107	.21690	.04825	00167	00090
		.26057	.02859	.00754	.00261	00232	00065	.25615	.05557	00237	00048
	45.000	.27308	.04655	.06528	.00539	00594	.09175	.28551	.07693	00572	.00236
	GB.GOO GRADIENT	.00364	00065	00053	.00002	.00002	.00065	.00382	.00035	.00002	.00004
	CHADIEN			D 65	COLDICAT INT	TOWAL -	.00/ 12.00				
			ENVL =	3.27	GRADIENT INTI	THANK -	.007 (4.00				
ALPHAO =	10.000							~	CO	CSL	CLN
	OZ	CN	CN	CLM	CY	CEL	CYN	CL	.06543	00267	00093
	.000	.35843	.00324	.02274	00241	00247	00138	.35242		00254	00087
	3.000	.36980	.00278	.01907	00229	00235	00139	.36350	.0892		00072
	7.500	.35459	.00300	.01539	00221	00227	00113	.37822	.05974	00243	
	15.000	.407ES	.00213	.01169	00202	00208	00893	.40110	.07283	00218	00046
	30.000	.44063	.00169	.00295	00106	00286	00054	.43364	.07817	00212	00017
	45.000	.46255	.00092	.00935	00039	00220	08840	.45537	.08123		00001
			.00109	.01069	00050	00243	.00023	.47261	.06443	00235	.00065
	69.000	.48009	00003	00097	.05303	.00003	E0000.	.00343	.00058	.08003	.00003
	GRADIENT	.00348	00003	00044							
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000									ec.	CLN
ALLINO	DZ	CN	CA	CLH	CY	CBL	CYN	CL.	CD	CSL	
	,080	.59501	02635	.03969	00333	00293	.00004	.58371	.11937		.00075
	3.000	.59712	02476	.04634	60350	00273	.00025	.58537	. 12843		.00000
	7.500	.61108	02414	.03547	~.00371	00203	.08648	.59977	. 12441		.0005
		.63331	02360	.02981	00406	00078	.00095	15059.	.13031		.00111
	15.000		02214	.02352	00360	.02076	.00130	.65249	.13997		.00107
	30.000	.65695	02084	.01905	00122	00854	.00037	.67225	.14614	00053	.0005:
	45.000	.69765		.01321	.00225	00230	08034	.69099	. 14991	00231	.00022
	60.000	.69702	01929		00005	.00012	.00005	.00209	.00081	.00013	£0000.
	GRADIENT	.00222	.00028	08046	00005	.00016					

TABULATED SOURCE DATA - CA20

			CYSD	747/1	01 51	•	CRBITER DATA		INGNB5	5) [ 11 MA	R 75 )
	REFERENC	E DATA						1	PARAHETRIC	DATA	
SREF * E LREF * OREF * SCALE *	2690.0000 SQ. 474.8100 IN. 936.6800 IN. .0300	YMRP	= .000	00.H.X0 00.HI 00.HI 00.HI				ELV-1B = ELEVON = BETAO = PHI = OX =	.000 5.000 .000 .000	ELV-0B = HACH = BETAC = DY = ALPHAC =	3.000 .600 .000 .000 8.000
			RN/L =	3.22 0	RADIENT INTE	ERYAL =	.00/ 12.00			*	
ALPHAG =	6.000 OZ .000 3.000 7.50D 15.000 30.000 45.000 60.000 GRADIENT	CN 02424 .00690 .03770 .08419 .15290 .26148 .52706 .00915	CA .02657 .02730 .02783 .02922 .03063 .03039 .02360 .00016	CLM .00433 .01301 .01310 .01308 .01264 .00900 .00846	CY .00102 .00089 .00027 .00066 .00008 .00106 .01382 00010	CBL 00259 00229 00215 00199 00178 .00096 .01567 .00006	CYN001970019300195001960019600198 .00005	CL 02688 .00401 .03458 .08069 .14886 .25689 .59170	CO .02399 .02787 .03161 .03785 .04644 .05747 .07857	CSL 00278 00247 00231 00215 00181 .00080 .01435 .00006	CLN 00169 00158 00134 00141 00021 00159 01345 .00005
			RN/L ■	3.25 (	SRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .22070 .24622 .27517 .31751 .37845 .41952 .46361 .00720	CA .01367 .01167 .01022 .00893 .00720 .00576 .00325 00845	CLM .04419 .03737 .03318 .02797 .02144 .01657 .01237 00143	CY000340006600111001010014000940001200010 GRADIENT INT	CBL0034100302002030020500217002090012000007	CYN001470013900117000940004400055 .00004	CL .21497 .24645 .26922 .31113 .37145 .41214 .45500 .00717	CD .05178 .05425 .05785 .05393 .07280 .07652 .09371	CSL 00361 00322 00300 00267 00213 00213 00139	CLN 00085 00085 00049 00049 00007 00007 00003
ALPHAO =	14.600 0Z .000 3.000 7.500 15.000 39.000 45.000 60.000 GRADIENT	CN .47115 .49633 .52033 .55649 .61148 .64413 .65860	CA 01017 01360 01495 01703 01750 01731 01530 00061	CLH .07962 .06395 .05689 .04720 .03650 .02850 .02400 00292	CY 00163 00194 00278 00353 00326 00325 00275 00216	CBL 00357 00320 00278 00155 00045 00039 00072	CYN 00844 0025 .00016 .00072 .00112 .00099 .00147	CL .45962 .46468 .50849 .54408 .59755 .62919 .64273	CD .10411 .10583 .11137 .11811 .13095 .13903 .14449	00014 00034	CLN .00044 .00053 .00093 .00108 .00100 .00104 .00160

			CAEO	747/1	01 51		ORBITER DATA	١.	(MGN05	(B) ( II MA	R 75 )
	REFEREN	CE DATA							PARAMETRIC	DATA	
SRET = 8	2690.0000 SQ	FT. XHRP	<b>=</b> 1109.00	00 IN.XO				ELV-18 =	.000	ELV-OB =	3.800
	474.8180 IN			00 IN.YO				ELEVON =	5.000	MACH =	.600
EREF =	935.5800 IN			00 IN.ZO				BETAO -	.000	BETAC =	.000
SCALE =	.0380	. 2120	- 515.00	00 111.20				PHI =	.000	DY =	.000
SCHEE B	.0360							DX =	10.000	ALPHAC =	8.000
								<b>-</b>			0.000
			RN/L -	3.39	GRADIENT INT	ERVAL -	.00/ 12.00				
ALPHAO =	6.000										
	D2	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSF	CLN
	.000	01622	.02488	01358	00115	00230	00233	01873	.02305	00253	00288
	3.000	.00805	.02516	00757	00112	00209	00219	.08537	02587	00231	00198
	7.500	.03722	.02544	00615	00875	00198	00207	.03436	.02919	00218	00165
	15.000	.07867	.02700	00144	00075	00184	00185	.07541	.03507	00202	00165
	30.000	. 14258	.02829	.00345	00086	00185	00054	. 13684	.04384	00191	00044
	45.080	.21712	.02847	.01497	.00094	00029	.00007	.21296	.05101	00028	.00010
	60.000	.33448	.02531	.04769	.00848	.00578	00024	.33000	.06013	.00573	00065
	GRADIENT	.08707	.00007	.00094	.00006	.00004	.00093	.00703	.00081	.00005	.00003
	CHADIENI	.00707	.00007	.00054	.00005	.0000	.00003	.00,03		.00003	
			RN/L =	3.64	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAG =	10.000										
11,100	DZ	CN	CA	CLM	CY	CEL	CYN	CL.	CD	CSL	CLN
	.008	.20117	.01426	.02691	60269	00264	80163	. 19564	.04899	00228	00115
	3.000	.22426	.01248	.02624	60276	00237	00150	.21869	05124	00259	00107
	7.500	.25435	.01002	.01884	00271	00233	00129	.24861	.05482	00252	00085
	15.000	.29801	.00931	.01640	00237	00227	00102	.29265	.06109	00241	00061
	30.000	.36459	.00331	.01370	00183	00196	00048	.35781	.07030	00201	00013
	45.000	.40644	.00517	.01328	00118	00203	00051	.39920	.07665	00209	00015
		.44279	.00556	.01328	00118	00203	00000	.43509	.08236	00200	.00035
	60.000		08045	00105	00000	.00004	.00005	.00703	.00078	.00005	.000034
	GRADIENT	.00706	UUU0	00105	08608	.00004	.00000	.00103	.00076	.00005	-00004
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
ABITORY -	DZ	CN	CA	CLM	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.43362	00838	.06243	~.00255	00334	00106	.42238	,09867	00349	00022
	3.600	.45986	01197	.05102	00280	00334	00076	.44832	.09945	00304	00002
	7.500	.48666	01462	.05102	00283	00262	00057	.47574	.10355	00269	00008
	15.000	.53046	01733	.03713	00391	00232	00019	.51889	.11151	00221	.00006
	30.000	.59260	01733	.03056	00327	00164	.00093	.57966	.12469	00137	.00130
	45.000	.63017	01893	.02567	~.00327	00077	.00117	.61603	. 13409	00047	.00133
	69.000	.65028	01682	.02108	00221	00077	.00162	.63552	.13905	00047	.00133
				00228	00007	00009	.00006	.00703	.13503		
	GRADIENT	.G0705	00081	00000	00007	.0000		.00163	.0004	.00011	.00004

المعاليين المتعالب المعالي والمتاري المعارية والمتعالية والمعالية والمتعاربين والمتعاربين والمتعارب والمتعارب

TABULATED SOURCE DATA - CA20

ORBITER DATA INGNOS71 ( 11 MAR 75 ) CYSS 747/1 01 SI PARAMETRIC DATA REFERENCE DATA ELV-1B -.000 ELV-08 -3.000 XMRP 1109.0000 IN.XO SREF 2690.0000 SQ.FT. HACH .600 ELEVON = 5.000 LREF 474.8100 IN. YHRP .0000 IN.YO BETAO .000 PHI .000 936.6800 IN. ZMRP 375.0000 IN.ZO BREF = .000 DY .000 EETAC = .0300 SCALE = DX 20.000 ALPHAC = 8,000 .00/ 12.00 3.24 GRADIENT INTERVAL = RN/L = ALPHAO = 6.000 CBL CYN CL CĐ CSL CLN CA CLH CY CN -.00104 -.00251 -.00253 -.02742 -.00223-.00278 -.00810 .02077 .000 -.00588 .02150 -.02388 -.80094 -.00209 -.00253 .01182 .02318 -.00234 -.00230 3.000 .01417 .02174 -.00222-.00059 -.00200 -.00223 .03756 .02641 -.00201 7.500 .04011 .02234 -.02022 .02364 -.01370 -.00014 -.00184 -.00191 .07275 .03142 -.00203 -.00171 15.000 .07564 -.00129 .00030 -.00154 -.00146 .13409 .04006 -.00168 30.000 .13755 .02592 -.08423 .19524 .02932 .00872 -.00109 -.00158 -.00070 .19110 .04957 -.00164 -.00053 45.000 .20255 -.00627 .00520 ~.00577 .00452 .06168 60.000 .20789 .04017 .03628 -.01429 .00004 .00610 .00011 .00095 .00006 .00003 .00007 .00606 .00075 .00007 GRADIENT GRADIENT INTERVAL = .00/ 12.00 RN/L \* 3.27 ALPHAO = 10.000 CLH CY CBL CYN CL CD CSL CLN CA DΖ CN .04739 -.00295 -.00165 -.00263 .19613 .000 .20138 .01260 .00838 -.00243 -.00213.04992 -.00259 -.00131 .22377 .01124 .00522 -.00258 -.00232 -.00174 14815. 3.000 -.00121 -.00178 -.00224 -.00162 .24748 .05332 -.00248 .00954 .00421 7.500 .25299 .05957 -.00239 -.00093 .29176 .00964 .00548 -.00198 -.00220 -.00133 .28576 15.000 -.00046 .08521 -.00060 -.00187 -.00080 .35242 .06845 -.00198 .35895 .00621 30.000 .07532 -.00221 -.00044 .01029 -.00042 -.00210 -.08082 .39014 45.000 .39729 .00643 -.0019B -.00296 .00047 .41549 .08161 -.00284 .00099 60.000 .42335 .00822 .01521 .00005 .00005 -.00641 -.00053 .00009 .00005 .00005 .00682 .00079 GRADIENT .00685 3.29 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHA0 = 14.000 CLN CY CYN CŁ CD CSL CN CA CLH CBL DŻ .09223 -.00355 -.00063 .000 .42211 -.01019 .03905 -.00164 -.00330 -.00147 .41204 -.00181 -.00309 -.00120 .43511 .09545 -.00329 -.00042 -.01265 .03267 3.000 .44528 -.00005 -.00211 -.00275 -.00073 .46590 .09991 -.00264 .47614 -.01575 .02634 7.500 .00013 .51302 -.01732 .02764 -.00200 -.00235 -.00045 .50197 .10731 -.00239 15.000 -.00150 .00039 .56263 .11957 -.00290 .00112 30.000 .57484 -.02010 .02542 -.00308 .02341 -.00284 -.00165 .00114 .60124 .12955 -.00132 .00151 45.000 .61472 -.01975 -.00252 .00203 .62763 . 13321 -.00019 .00214 .64122 -.02258 .01814 -.0007160.000 .00008 -.00167 -.00006 .00007 .00010 .00714 .00102 .00010 **GRADIENT** .00718 -.00074

			CASO	747/1	01 51		ORBITER DAT				
			CALLO	.4771	01 31		UMBITER DAT	^	(NGNO!	183 CIEM	IAR 75 )
	REFERENC	E DATA							PARAMETRI(	DATA	
	2890.0000 50.	FT. XMRP	= 1169.60	080 IN.XO	ı			ELV-1B =	.009	ELV-08 *	3.000
LREF =	474.8100 IN.	YMRP		00 IN.Y9				ELEVON =	5.000	MACH =	.600
BREF =	936.6800 IN.	ZHRP	<b>a</b> 375.08	300 IN. <b>ZO</b>				SETAO =	.000	ESTAC =	.000
SCALE =	.0309							PHI =	.000	DY =	10.000
			•					DX #	.000	ALPHAC =	4.000
			RN/L =	3.34	GRADIENT I	NTERVAL -	.00/ 12.00				
ALFHAO =	10.000										
	DZ	CN	CA	CLM	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	. 0177	.08045	.65203	.00063	00946	00391	39559	.07021	01000	00221
	3.000	. 41220	00148	.04291	.00007	00789	00375	.40620	.07013	00641	00233
	7.500	.42158	00170	.03911	00091	00690	00308	.41545	.07153	00733	00162
	15.000	.43846	00327	.03046	00162	00544	0020B	.43236	.07292	00572	- 00110
	30.000	.46142	00333	.02480	00054	00397	00055	.45499	.07685	00401	.00014
	45.000	.47801	00393	.01685	.00022	00340	00004	.47!41	.07923	~.00335	32000.
	60.000	.49361	60399	.01388	.00147	00289	.00010	.48680	.08190	00283	.00060
	GRADIENT	.08260	80027	00179	00821	.00033	.00012	.00260	.00019	.00035	.00006
			RN/L =	3.24	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	CN	CA	CLM	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.65835	01659	.06052	00832	00672	.00142	.64339	.14332	00617	.00301
	3.000	.65679	01774.	.05532	00788	00454	.00028	.64351	. 14216	00434	.00136
	7.500	.65926	01767	.05001	00594	00303	00050	.64463	. 14251	00306	.00024
	15.000	.66644	01693	.64276	00455	00304	08846	.65071	. 14491	00306	.00029
	30.000	.69180	01501	.03430	00163	00311	0000t	.65441	.15019	00302	.00074
	45.000	.69397	01523	.02754	.00054	00309	.00017	.67695	. 15309	00296	.00091
	60.800	.70279	01514	.02165	.00269	00309	.00050	. 68557	. 15533	00285	.00133
	GRADIENT	.00014	00013	00138	.00031	.00848	00025	-00017	80889	.00840	00036

----

PAGE 653 TABULATED SOURCE DATA - CARD DATE 84 DEC 75 ORBITER DATA (NGN059) ( [[ MAR 75 ] CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA 3.000 ELV-18 + .000 ELY-09 -XHRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. .600 ELEVON = 5.000 HACH .0000 IN.YO 474.8100 IN. YMRP \* LREF = .000 BETAC # .000 BETAO # ZMRP = 375.0000 IN.ZO BREF = 936.6800 IN. 10.000 PHI .000 DY SCALE = .0300 4.000 DX 10.000 ALPHAC = GRADIENT INTERVAL -.00/ 12.00 3.32 RN/L = ALPHAO = 10.000CLN CD CSL CL CLH CY CBL CYN CA ĐΖ CN -.00269 -.00881 -.00428 .37313 .06702 -.00942 .03933 .00012 .000 .37910 15100. -.00271 .06711 -.00812 -.00752 -.00409 .38374 -.00039 3.000 .38956 -.00055 .03149 -.00716 -.00185 .39533 .06819 -.00166 -.00573 -.00307 -.00150 .02765 .40116 7.500 .06984 ~.00597 -.00140 -.80554 -.00240 .41339 .02309 -.00140 15.000 .41923 -.00301 .07305 -.0040B .00001 -.00402 -.00069 .44336 .44931 -.00505 .01746 -.00137 30.000 .00049 -.00012 .46054 .07589 -.00345 -.00020 -.00349 -.00524 .01506 .46672 45.000 .08071 .07919 -.00282 .00021 .47559 .00128 -.00290 60.000 .48212 -.00460 .01397 .00029 .00012 .00016 -.08024 .00027 .00017 .00293 .00291 -.00035 -.00138 GRADIENT GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.25 ALPHAO = 14.000 CLN CSL CYN ÇŁ CD CLH CY CBL CA 02 CN .00217 .60829 .13099 -.00693 -.00522 -.00725 .00042 .05914 .000 .62189 -.02017 .00082 -.00447 -.00029 .61633 .13011 -.00454 .62950 -.02286 .04985 -.00512 3.000 -.00286 .00061 -.00292 -.00010 .62623 .13101 .04376 -.00520 -.02438 7.500 .63933 -.00130 18000. .63679 .13524 -.00146 .00047 -.00483 .65059 -.02283 .04078 15.000 -.00254 .00082 .00018 .65919 .14273 -.08097 -.00266 -.02098 .03159 .67413 39.000 .00122 .67235 .14706 -.00248 -.00270 .0005B .00097 .02541 45.000 .69795 -.01997 .00143 .15012 -.00271 .69490 -.00298 .00073 .70097 -.02003 .02132 .00341 60.000

.00055

.00000

-,00054

.00231

GRADIENT

-.00200

-.00008

.00238

.00003

-.00019

			CA20	747/1	01 St	I	ORBITER DATA		INGNOS	6) [11 M/	AR 75 )
	REFERENC	E DATA						1	PARAMETRIC	DATA	
LREF #	890.0000 SQ.1 474.8100 IN. 936.6800 IN.	FT. XMRP YMRP ZMRP	= .00	00 IN.XO 00 IN.YO 00 IN.ZO				ELV-1B = ELEVON = BETAO = PHI = OX =	.000 5.000 .000 .000	ELV-09 = HACH = BETAC = DY = ALPHAC =	3.000 .600 .000 10.000 8.000
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALP-∕∘c. ■	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .25105 .27309 .29550 .33440 .38541 .42054 .45030	CA .00527 .00548 .00519 .00326 .00109 .00054 .00024 00014	CLM .04045 .03706 .03544 .03086 .02433 .02081 .01873 00064	CY .00721 .00395 .00151 00099 00071 00035 .00026 00074	CBL 01177 01035 00905 00745 00565 00470 00339 .00036	CYN 00594 00543 00495 00377 00190 00086 00007 .00013	CL .24615 .26799 .28109 .32875 .38232 .41405 .44342 .00593	CD .04977 .05282 .05660 .06128 .06953 .07355 .07843 .00080	CSL 01262 01115 00979 00590 00590 00478 00393 .00037	CLN 00380 00395 00391 00242 00083 00003 .00092
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .49287 .51343 .53730 .56692 .61602 .64907 .67089	CA 01255 01513 01782 01800 01938 01969 01953 00069	CLM .05960 .06160 .05454 .05107 .03997 .03252 .02757	CY .00406 .00150 00129 00315 00383 00278 .00018 00071	CBL01275010160093600580002810014200117	CYN00300002750021400101 .00073 .00131 .00169	Ct. .48127 .50184 .52565 .55434 .60241 .63455 .65569	CD .10706 .10953 .11269 .11966 .13022 .13791 .14335 .00075	CSL 01309 01052 00663 00598 00106 00075	CLN .00017 00021 00005 .00042 .00139 .00162 .00183 00003

and the second of 
TABULATED SOURCE DATA - CA20

(NGN051) ( 11 MAR 75 ) ORBITER DATA 747/1 01 51 CY50 PARAMETRIC DATA REFERENCE DATA ELV-09 = 3.000 ELV-18 = .000 XHRP = 1109,0000 IN.XO = 2690.0000 SQ.FT. .600 MACH ELEVON = 5.000 .0000 IN.YO YHRP 474.8100 IN. LREF .000 BETAC = BETAG .000 375.0800 IN.ZO 936.6800 IN. ZHRP EREF = 10.000 .000 DY PH1 .0300 SCALE = 8.000 DΧ 10.000 ALPHAC = GRADIENT INTERVAL = .00/ 12.00 3.20 RN/L \* ALPHAO = 10.000 CSL CLN CD CYN CŁ CY CBL CLH CX ĐΖ CN -.00365 -.01140 -.00559 .22251 .04730 -.01059 .00545 .02214 .22734 .00794 .000 .04973 -.01031 -.00360 .24094 -.00953 -.00534 .02097 .00307 .00713 3.000 .24592 . 05267 -.00919 -.00342 -.00846 -.00497 .26577 .00089 .01979 .27089 .00572 7.500 -.00753 -.00239 .30594 .65720 -.00700 -.00366 -.00116 .00322 .01755 .31112 15.000 -.00039 .06492 -.00555 .36059 -.00186 -.00858 -.00541 .01766 .00132 .36638 30,000 -.00501 -.00024 .07000 -.00111 .39357 -.00489 .00041 .01751 .39975 .00059 45.000 .07448 -.00474 .00020 .41924 -.00470 -.00862 .00054 .01897 .00189 60.000 .42590 .00003 .00071 .00029 .00008 .00575 -.00060 .00028 -.00031 -.00830 .0057B GRADIENT .00/ 12.00 GRADIENT INTERVAL -3.26 RN/L = ALPHA0 = 14.000 CSL CLN ÇĐ CL CYN CY CBL CA CLM CN DZ -.00222 -.01408 .09861 -.01305 ~.00554 .46241 .00781 -.01618 .05039 .000 .47253 -.00259 .48127 .10143 -.01213 -.01114 -.00545 .04574 .00508 -.01801 3.000 .49151 -.01055 -.00106 .10480 -.00358 .50603 .00199 -.00998 .04173 .51636 -.02073 7.500 -.00757 -,08013 .53848 .11093 -.00196 -.08086 -.00731.54932 -.02264 .03845 15.000 .00147 .12194 -.00374 .58871 -.00399 .00052 -.02411 .03604 -.00190.60072 30.000 .00197 -.00040 .12930 .62881 .02863 -.00290 -.00086 .00181 -.02666 .64141 45.000 .00215 .00089 .65235 .13569 .00835 .00230 .00008 .02723 .65580 -.02616 60.000 .00045 .00017 .00082 .00040 .00027 .00579 -.00061 -.00113 -.00079 GRADIENT .00582

PAGE 665

			CA28	747/1	01 S1		ORBITER DATA	`	TNGNOS	32) ( 11 M	AR 75 )
	REFEREN	CE DATA							PARAMETRIC	DATA	
SREF = LREF = BREF = SCALE =	2690.0080 50 474.8100 1N 936.6800 IN .0300	I. YHRP	00	180 IN.XO 180 IN.YO 180 IN.ZO				ELV-18 = ELEVON = BETAO = PHI = DX =	.000 5.000 .000 .000	ELV-OB = MACH = EETAC = DY * ALPHAC =	3.000 .600 -5.000 .000 4.000
			RN/L =	3.22	GRADIENT 1	NTERVAL =	.00/ 12.00				
ALFHAO =	10.000 D2 .080 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .37094 .39351 .40824 .42887 .49738 .47633 .49779 .00464	CA .00702 .00323 .00212 .00005 00052 00135 00237 00062	CLM .06437 .04588 .03883 .02932 .02087 .01431 .00635 00325	CY0155801159005510030000012 .00032 .00120 GRADIENT I	.00292 .00177 .00050 00054 00131 00252 00042	CYN .00285 .00209 .00124 .00092 .00054 00010 00067 00021	CL .36409 .38697 .40167 .42234 .45053 .46933 .49864 .00487	CD .07132 .07151 .07258 .07453 .07691 .08139 .06411 .00023	CSL .00548 .00324 .00195 .0065 00044 00130 00260	CLN .00193 .00155 .00091 .00082 .00013 00022
ALPHAO =	14.000 D2 .000 3.000 7.500 15.000 30.000 45.000 GRADIENT	CN .62218 .63772 .64831 .65941 .68253 .69706 .70713	CA 00277 00770 01052 01121 01181 01213 01305 00101	CLM .08781 .08542 .05237 .04261 .03121 .02430 .01894	CY 01138 01022 00635 00213 .00104 .00128 .00219	CBL .00472 .00260 .00069 00033 00130 00167	CYN .00174 .00211 .00133 .00042 .00009 00006	CL .60437 .62064 .63162 .64253 .66511 .67929 .68928	CD .14783 .14654 .14654 .15365 .15365 .15897 .15841	CSL .00500 .00303 .00119 00022 00124 00163 00172 00050	CLN .08055 .00142 .00107 .00049 .00039 .00034 .00078

---

DATE		

GRADIENT

.00620

-.60129

TABULATED SOURCE DATA - CA20

			CA20	747/1	01 SI		ORBITER DATA		INGNOS	3) (11 %	AR 75 )
	REFEREN	CE DATA						f	PARAMETRIC	DATA	
LREF =	936.6900 IN 936.6900 IN	YHRP	00	08 IN.XO 09 IN.YO 09 IN.ZO				ELV-IB = ELEVON = ESTAO = PHI = DX =	.000 5.000 .000 .000	ELV-08 =  MACH =  BETAC =  DY =  ALPHAC =	3.000 .600 -5.000 .000 4.000
			RN/L =	3.30	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	ÇN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	. 000	.34357	.00934	.05058	01676	.00653	.00268	.33673	.06996	.00690	.00150
	3.000	.36919	.00542	.03284	01294	.60426	.00192	.36264	.06944	.00447	.00116
	7.508	.39706	.00302	.02465	00845	.00279	.00113	.38065	.07018	.00295	.00063
	15.000	.40879	.00225	.02005	00501	.00128	.00084	.40219	.07320	.00140	.00060
	30.000	.44363	.00067	.01331	00239	80005	.00071	.43577	.07769	.00008	.00070
	45.000	.46478	.00026	.00997	00110	00109	.80014	.45768	.08097	00105	.00033
	60.000	.46508	.00030	.08815	08018	00210	00002	.47470	.06401	00207	.00034
	GRADIENT	.00565	00082	08331	.00110	00048	00020	.08571	.00018	00051	00012
			RN/L =	3.27	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	OZ	CN	CA	CLH	CY	CBL	CYN	CL	CO	CSL	CLN
	.080	. 57655	00514	.09070	01271		.00208	.56067	.13449	.00708	.00039
	3.080	.60577	01192	.06177	01188		.00221	.59866	.13499	.00525	.00055
	7.500	.62435	01521	.04565	00873		.00156	.60948	.13629	.00325	.00080
	15.000	.6 <del>397</del> 5	01513	.03826	00487		.00079	.62441	. (4009	.00086	.00000
	30.000	.67063	01544	.02712	00242		.00068	.65445	. 14728	.00028	.00063
	45.600	.68764	01445	.02276	00169		.80040	.67071	. 15234	00050	.00053
	69.000	.69976	01418	.01882	.00016	00140	.00060	.68241	. 15552	00121	.00092

.00054

-.00050

-.00582

-.00008

.00632

.00024

-.00051

.00005

			CASO	747/1	01 SI		ORBITER DATA	١	(NGN06	34) ( 11 M	AR 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 8	2690.0000 SQ.F	T. XHRP	- 1109.00	GO IN.XO				£LV-19 =	.000	ELV-03 -	3.000
LREF =	474.8100 IN.	YHRP	00	00 IN.YO				ELEVON #	5.000	MACH -	.500
BREF =	936.6800 IN.	ZHRP	= 375.00	00 IN.ZO				EETAO =	.000	PH1 =	.000
SCALE =	.0300							DY =	.000	BETAC =	-5.000
								DX =	20.000	ALPHAC =	4.000
			RN/L =	3.30	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO *	10.000										
	OZ	CN	CA	CLM	CY	CBL	CYN	CL	CĐ	CSL	CLN
	. 088	.34935	.08627	.02421	00650		00224	. 34296	.06684	- 08437	00305
	3.000	.36380	. 08475	.01838	00599		00158	. 35745	.06785	.00333	00219
	7.500	36+99	.00247	.01062	00531		00038	. 37871	.06929	.08169	00072
	15.000	.40263	.00252	.01228	00322		00020	.3960B	.07240	.08049	00029
	30.000	.43569	.00145	.01209	00128		-00010	.42892	.07789	00093	.00026
	45.000	45773	. 98846	.01002	.80021		00003	.45869	.07993	00169	.00027
	60.000	.48864	00142	.00597	.00139		.00006	.47359	.08206	00250	.00050
	GRADIENT	. 08475	00051	00181	.00016	08839	.00025	.00476	.00033	00033	.00031
			RN/L =	3.30	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	19.000										
	ÐΖ	CN	CA	CLM	CY	CEL	CAN	CF	CD	CSL	CLN
	.009	.59391	02126	.03972	00612		00107	.59141	.12305	.00355	00198
	3.000	.69501	02255	.03502	00537		00075	.59249	. 12449	.00314	00155
	7.500	.61698	02269	.03239	00511		00007	.66414	.12726	.00265	00073
	15.00P	.63673	02290	.02835	00470		.00091	.62335	.13182	.00213	14008.
	39.000	.66459	02009	.02560	00289		.00123	.64971	14129	.00156	.00088
	45.000	.69226	01819	. 02233	00005		.08019	.65640	. 14748	00066	.00035
	60.000	.69303	01602	.01993	.00364		00010	.67632	.15211	00275	.00058
	GRADIENT	.00364	00018	00082	.00013	00016	.00013	.00300	.00055	00012	.00017

\_\_\_\_

GRADIENT

PAGE 669 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 (NGN065) ( 11 MAR 75 ) ORBITER DATA 747/1 01 SI CYSO PARAMETRIC DATA REFERENCE DATA 3.000 ELV-18 -.000 ELV-08 -XHRP = 1109.0000 IN.XO SREF - 2690.0000 SQ.FT. 5.000 MACH -.600 ELEVON = .0000 IN.YO YHRP 474.8100 IN. -5.000 LREF BETAC = BETAO . ,000 375.0000 IN.ZO ZMRP -935,6800 IN. BREF -DY .000 .000 PHI SCALE = .0380 8.000 ALPHAC = .000 ĐΧ GRADIENT INTERVAL = .00/ 12.00 3.22 RN/L = ALPHAO = 10.000 CLN CSL CD CL. CBL CYN CY CLH CA DZ CN -.00212 .00590 .04951 -.00107 .20411 .00618 -.02156 .04189 .01331 .080 .20961 -.00104 .05336 .00374 -.00037 .23394 .00386 .03602 -.01596 .01192 3.000 .23965 .00234 -.00046 .26463 .05744 -.00005 -.01045 .00239 .03244 .01062 .27058 7.500 .00009 .06289 .00053 .30974 .00051 .00018 -.00542 .00814 .02571 15.600 .31596 .00030 .07161 -.00086 .00018 .36925 -.00870 -.00204 .02083 .00640 30.000 .37607 -.00157 .00800 .07692 -.00027 .40770 -.00121 -.00155 .01510 .00496 ,41487 45.000 .00039 .09191 -.00233 .44075 -.00236 -.00002 .01126 .00010 .00413 60.000 .44828 -.00046 .00021 .00105 .00013 .00797 -.00049 .00146 -.00122 -.00035 GRADIENT .00803 .00/ 12.00 GRADIENT INTERVAL . 3.23 RN/L = ALPHA0 = 14.000 CLN CD CS1. CL CBL CYN CY CA CLH ĐZ CN .00081 .00628 .10445 .00230 .44883 .00589 -.02481 -.00722 .08214 .46077 .000 .00386 .00099 .10849 .48382 .00189 -.01855 .00351 .05176 .49570 -.01178 3.000 .00107 .00229 .11299 .50869 .00196 .00160 -.01252 -.01343 .05550 7.500 .52091 .00139 .00154 .54301 .12095 18100. .00155 .04863 -.00820 -.0140t .55614 15.000 .00108 .00121 .13357 .59837 .00143 -.00359 .00073 .03544 -.01516 30.000 .61291 .00092 .00047 .19171 .63027 .00023 .00100 -.00324 .02881 45.000 .64583 -.01497 .00146 .00006 .14733 .65321 .00143 -.00137 -.00029 -.01507 .02321 69,000 .66945 .00003 -.00052 .00113 -.00009 .00779 -.00051 .00162 -.00338 -.00079 .00783

(NONDER) ( 11 MAR 75 )

PAGE 670

			CA20	747/1	O1 S1	.0	RBITER DATA		ENGNOSE	3) ( 11 MA	R 75 )
	REFERENCE	DATA						F	PARAMETRIC	DATA	
LREF =	630.0000 SQ.F 474.8100 IN. 938.6800 IN. .0300			10 IN.YO 19 IN.ZO	GRADIENT INTE	ERVAL =	.89/ 12.60	ELV-18 = ELEVON = ESTAO ** PHI = OX =	.000 5.000 .000 .000 10.000	ELV-03 = MACH = BETAC = DY = ALPHAC =	3.090 .690 -5.000 .000 8.000
ALPHAO =	10,000 0Z .000 3.000 7.500 15.000 95.000 95.000 GRADIENT	CN .19850 .82596 .83901 .83977 .36378 .90603 .93753 .00731	CA .01384 .01209 .01095 .00871 .80725 .00820 .00818	CLM .02080 .01599 .01612 .01240 .01232 .01071 .01069	CY 02174 01726 01225 00524 00144 0001	CBL .00594 .00517 .00373 .00138 .00004 00109 00205 00042	CYN0011000024 .000150002400020 .00016	CL .19311 .22043 .24825 .29371 .35700 .39878 .42981	CD .04780 .05115 .05490 .06063 .07031 .07661 .09206	CSL .00584 .00505 .00371 .00140 .00006 00111 00206 00039	CLN 00229 00113 00048 .00002 .00014 00005 .00016
ALPHAO •	14.000 DZ .800 3.000 7.590 15.000 30.000 45.000 60.000	CN .42928 .46154 .46765 .52916 .59359 .63339 .67049 .00765	CA0061701047012370150501657017420080	3.25 CLM .06039 .04595 .04190 .03732 .03070 .02544 .02305	01924 01374 00892 00452 00323 00155	CBL .00731 .00532 .00375 .00201 .000540005400094000940009400094	CYN .0023 .00169 .00144 .00140 .0018 .00113 .00206	CL .41603 .45036 .47635 .51708 .57993 .61659 .65479	CD .09786 .10150 .10501 .11341 .12763 .13715 .14531	CSL .00763 .00555 .00359 .00054 00020 00042	CLN .00040 .00034 .00049 .0016 .00116 .00121

.00765

GRADIENT

PAGE 671 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 (NGN067) ( 11 HAR 75 ) ORBITER DATA CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 3.000 ELV-08 = .000 ELV-18 -XHRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. .600 5.000 MACH ELEVON = .0008 IN.YO YMRP = .000 474.8100 IN. .000 PHI BETAD = 375.0000 IN.ZO 2HRP = -5.000 BREF -936.6800 IN. .000 BETAC -9.000 SCALE \* .0300 ALPHAC = 20.000 DX .00/ 12.00 GRADIENT INTERVAL = 3.29 ALPHAO = 18.000 CSL CLN CĐ CL COL CYN CY CLH CN CA -.00385 ΟZ .00442 .04659 -.00302 .19530 -.01277 .00502 .00330 .01207 .20044 .000 -.00195 .00309 .22447 .64540 .00338 -.00138 -.01107 -.00406 .00967 3.000 .22964 -.00138 .00176 .05356 .24729 .00197 -.00106 .00152 -.00746 .00980 .25283 7.500 -.00025 .00034 .05914 -.00078 15895. -.00408 .00049 .00546 .00854 .29213 15.000 -.08069 -.00018 .34950 .05726 -.00116 -.00062 -.00029 .00606 .35596 .08553 30,000 -.00024 -.00168 .07371 -.00053 .38980 -.00161 .60049 .00921 .00491 .39567 45.000 -.00007 .07870 -.00253 -.00050 .41559 .00101 -.00248 .01335 .00533 .42294 60.000 .00031 -.00035 .00092 .00578 -.00040 .00025 .00072 -.00012 -.00028 .00684 GRADIENT .00/ 12.00 GRADIENT INTERVAL = 3.29 RN/L = ALPHAO = 14.000 CLN CSL CD CL. CYN CBL CLH CY CA CN -.00277 DZ .09454 .003B0 -.00177 .42392 .00436 -.01262 .03014 -.01092 .43420 -.00151 .000 .00275 .09773 -.00080 .44241 .00393 .02694 -.01092 -.01228 .45291 3.000 .00144 -.00034 .10263 .46957 .00002 .00149 -.00816 .02397 -.01402 .48745 7.500 .00012 .00062 .50551 .10905 .00058 .00027 -.C0514 -.01648 .02591 .51697 .00093 15.000 .12023 -.00107 .00063 .55558 -.00230 -.00126 .02811 -.02017 39.009 .57787 .00163 -.00112 .60914 .13041 -.0014B .03131 -.00168 .02459 -.02083 .62259 45.000 .00295 .00023 .13685 .00292 .65321 -.00049 -.00137

-.(^^31

.00108

.00808

.00023

-.00938

.00859

.00032

.02401

-.00081

-.02330

-.08842

.65739

.08616

60.000

GRADIENT

			CAED	747/1	0! SI	C	RBITER DATA		INGNOE	3) ( [] H	ur 75 )
	REFERENCE	E DATA						í	PARAMETRIC	DATA	
LREF =	590.0000 SQ.8 474.8100 IN. 936.6800 IN. .0300		001	30 IN.XO 30 IN.YO 30 IN.ZO				ELV-IB # ELEVON # EETAO # PHI # DX #	.000 5.000 .000 .000	ELV-08 * HACH = BETAC = DY * ALPHAC =	3.000 .600 -5.000 10.000 4.000
			RN/L -	3.2 <del>9</del>	GRADIENT INT	ERVAL -	.00/ 12.08				
ALPHAO =	10.889 DZ	CN .40318 .41860 .42865 .43706 .46105 .47751 .49578	CA .00155 00069 00147 00215 00293 00380 00517 00040	CLH .04591 .03762 .03328 .02922 .02347 .01627 .01665	CY064400576005420029400121 .00017 .00143	CBL 60347 60347 00345 00276 00273 00274 .00000	CYN 00196 00148 00125 00086 .00037 .00052 .00009	CL .39679 .40534 .41649 .43079 .45456 .47092 .46315	CD .07154 .07161 .07154 .07378 .07717 .07917 .08100 .00005	CSL 00378 00367 00361 00363 00271 00262 00861 .00002	CLN 00133 00085 00085 00010 .00059 .00099
ALFHAO =	14.000 OZ .000 3.000 7.500 15.000 45.000 60.000 GRADIENT	CN .65631 .65459 .65404 .65400 .68012 .69357 .70264 .80054	CA01099014930163401512015040150100074	5.22 CLH .06156 .04630 .04057 .04082 .03336 .02665 .02164	CY0132301187005080054800110 .00113 .00325 .00056	CBL000B200100001530022000269002790028800010	CYN .00169 .00107 .0030 .00089 .00027 .00048 .00076	CL .63935 .64646 .64826 .64793 .65350 .67670 .65540	CD . 14857 . 14629 . 14597 . 14597 . 15019 . 15322 . 15542	CSL 00039 00071 00142 00211 00254 00259 00261 00014	CLN .00163 .00128 .00055 .00062 .00191 .00115 .00143

. ....

TAPULATED SOURCE DATA - CA20 DATE 04 DEC 75

-.00073

.00282

GRADIENT

-.00274

-.08080

-.BBB001

PAGE 673 ( 11 MAR 75 ) ORBITER DATA (MGN069) CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA ELV-00 = 3.000 ELV-IB -.000 XHRP - 1169.0000 IN.XO SREF = 2690.0000 SQ.FT. HACH -.600 ELEVON -5.000 .0000 IN.YO YHRP = 474.8100 IN. LREF # -5.000 PETAO -.000 PETAC -375.0000 IN.ZO 936.6800 IN. ZHRP BREF = 10.030 PHI .000 DY .0300 SCALE = 4.000 DΧ 10.000 ALPHAC -.00/ 12.00 RN/L = 3.25 GRADIENT INTERVAL -ALPHAO - 10.000 C5L CLN CYN CL CD CY CBL CLH DZ CH CA .06710 -.00219 -.00168 -.00187 -.00204 .36966 .00169 .03513 -.00668 37570 .000 -.00108 -.00149 .38569 .06593 -.00350 -.00707 -.06227 .02423 -.00105 3.000 .39144 .06793 -.00285 -.00090 -.00535 -.09265 -.00139 .39428 7.500 .4000B -.80159 .02427 .06893 -.00285 -.00029 -.00275 -.00078 .41620 -.08449 .01836 -.00408 .42193 15.000 .07225 -.00258 .00046 -.00263 .00001 .44102 .01728 -.00135 30.000 .44685 -.00543 .00072 .45977 .07518 -.00262 .00014 -.00271 .00025 45.000 .46485 -.08564 .01528 -.00259 .00024 .47842 .07789 -,00251 .00069 .01198 .00055 .48467 -.00639 60.000 .00010 .00012 -.00009 .00008 .00317 .88019 -.00010 .00315 -.08044 -.00133 GRADIENT GRADIENT INTERVAL -.00/ 12.00 RN/L = 3.25 ALPHAO = 14.000 CSL CLN CD CYN CL CY CBL CN CA CLM DZ .00019 .13321 .00080 .05761 -.00072 .08073 .88037 .60699 -.01759 .62119 .000 .00106 .62407 .13236 .00122 .00093 .00132 -.02255 -.01064 .63755 .04610 3.000 .00101 .00121 62984 .13293 .00094 -.00899 .00057 .64329 -.02339 .03593 7.500 . 13547 S5000. .00087 -.00542 .00000 .00089 .63642 ~.02155 .03627 15.000 .65053 .14283 -.00169 .00105 .00061 .65790 -.00076 -.00198 -.02059 .02898 30.000 .67291 .00111 -.00213 .00156 -.00233 .00856 .67247 .14732 -.01974 .02497 45.000 .69814 .003B4 -.00280 .00068 .60251 .15015 -.00255 .00134 .02132 .69856 -.01942 60.000 -.00002 .00001 01000. .00010 .00291

EVIC OF FR	6 10	7 4-1-11-1-6	TIED EDUNGE T	,,,,,, - <del>v</del> ,	LU						
			CAEO	747/1	01 51	(	ORBITER CATA		(NGND7	D) (11 PV	IR 75 )
	raverand:	eava						F	ARAMETRIC	DATA	
LCEF =	TTO.0020 ED.E 979.0160 IN. 929.6260 IN. .0208	77. 1050 WID ZID	.u81	0X.N1 00 0Y.N1 80 0S.N1 CC				ELV-18 = ELEVON = EETAO = PHI = OX =	.000 5.000 .000 .000	ELV-OB = HACH = BETAC = DY = ALPHAC =	3.080 .600 -5.000 10.000 8.000
			CONF =	3.63	GRADIENT INT	ERVAL =	.00/ 12.00				
:<	10.00D D2 .000 E.000 7.500 15.000 50.000 95.000 G0.000 GRADIENT	CX .60104 .87024 .89226 .92246 .50135 .42056 .42056 .45464	CA .900%0 .00775 .00570 .00%55 .008%5 .00809 00168 00023	CLM .05%50 .03251 .03275 .02759 .02551 .01918 .0143% 00021	CY054790052200559005130015500020 .00115 .00004	CBL00478005210052800498003870036000005	CYN004810048800395003690012800065 .00003 .00011	CL .24577 .26478 .28764 .32666 .37609 .41417 .44805 .00554	CD .05186 .05456 .05753 .06203 .06915 .07312 .07716	CSL 00554 00589 00589 00587 00450 00392 00354 00004	CLN 00391 00391 00391 00178 00050 .00004 .00065 .00012
alfnag o	14.000 DZ .000 3.000 7.500 15.300 20.000 45.000 60.000	CN .51216 52511 .53535 .56911 .61463 .64722 .66979	01576 01659 01659 01690 01979 01998 01689 0016	CLII .05241 .04635 .04672 .04570 .03920 .02278 .02676	00852 00689 08419 00199	CBL 00499 00447 00431 00360 00173 00109 00097	CYN 00184 00148 00090 00013 .00102 .00144 .00149	Ct. .50076 .51353 .52763 .55571 .60126 .63255 .65349 .00355	CD .10891 .11095 .11405 .11951 .13094 .13926 .14347	CSL 00529 00470 00440 00353 00143 00071 00058	CLN 08059 08056 .08017 .08075 .08141 .08165 .08169

TABULATED SOURCE DATA - CARD

			CA2D	747/1	01 51	•	DRBITER DATA	•	(NGN07	1) (11 14)	AR 75 )
	REFERENCI	E BATA							PARAHETRIC	DATA	
LREF =	690.0000 SQ.1 474.8100 IN. 936.6800 IN. .0300	FT. XHEP YHRP ZMRP	00	00 IN.XO 00 IN.YO 00 IN.ZO				ELV-IB = ELEVON = BETAO = PHI = DX =	.000 5.000 .000 .000	ELV-OB = MACH = BETAC = DY = ALPHAC =	3.000 .600 -5.000 10.000 9.000
			RN/L =	3.25	GRADIENT II	NTERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .22419 .24371 .26951 .30686 .36261 .40269 .43496 .00602	CA .00893 .00757 .00591 .00445 .00196 00022 00125 00040	CLM .01584 .01575 .01586 .01699 .01610 .01539 .01580 .00001	CY0054500532084820039000097 .00075 .0029 .00789	00401 00377 00368 00387 00008	CYN004080039300349001350009600037 .00008	CL .21924 .23869 .26438 .30142 .35976 .39561 .42857 .00600	CD .04773 .04977 .05262 .05767 .0649D .06971 .07430	CSL 00369 00405 00419 00494 00394 00379 00369 00006	CLN 00350 00328 00280 00069 00068 00031 .00031
ALPHAO =	14.000 OZ .600 3.009 7.500 15.000 30.000 45.000 GRADIENT	CN .47898 .49771 .51814 .54670 .59900 .63673 .66513	CA 01803 02019 02141 02166 02393 02384 02439 02044	CLM .03695 .03243 .03283 .03553 .03277 .03060 .02660	00541 00462 00284 00212	00469 00493 00433 00245 00059	CYN 00271 00235 00180 00064 .00101 .00176 .00210	CL .46901 .48781 .50793 .53570 .58599 .62358 .65128	CD .09835 .10081 .10457 .11125 .12169 .13091 .13724 .00083	00213 00015 .00080	CLN 00154 00115 00058 .00043 .00157 .00165 .00196

			CA20	747/1	01 S1		ORBITER DATA	١	(NGN07	2) (11 M	AR 75 )
	REFEREN	ICE DATA							PARAMETRIC	DATA	
SREF = LREF = EREF = SCALE =	2690.0000 50 474.8100 IN 936.6800 IN .0300	i. 1946P	88	80 IN.XO 80 IN.YO 80 IN.ZO				ELV-18 = ELEVON = BETAO = PHI = DX =	.000 5.000 .000 .000	FLV-08 = HACH = EETAC = DY = ALPHAC =	3.000 .600 5.000 10.600 4.000
			EN/L =	3.28	GRADIENT IN	ITERVAL =	.00/ 12.00				
ALPHA <b>© ≈</b>	10.000 DZ .000 3.000 7.580 15.000 30.000 45.000 60.000 GRADIENT	CN .36815 .40369 .41918 .43638 .46562 .46463 .50064 .00408	CA .00127 00066 00166 00179 00392 00373 00040	CLM .07012 .05487 .04486 .03769 .02009 .01554 00328	CY .00162 .00133 00041 00126 00136 00030 GRADIENT IN	CRL 01515 01199 08997 00738 00498 00369 00285 .80067	CYN 00733 00612 00444 00295 00028 00025 .00019 .00038	CL .38204 .39770 .41314 .43005 .46020 .47792 .49357 .08409	00 .06866 .06926 .07095 .07401 .07726 .08048 .00388	CSL 01619 01287 01058 00778 00507 00306 00278 .00073	CLN 00459 00355 00264 00162 00010 .00043 .00059
ALPHAO =	14.009 OZ .009 3.900 7.500 15.000 30.000 45.000 60.000 CRADIENT	CN .64285 .64800 .65497 .65806 .69550 .69675 .70455	CA 01530 01721 01777 01713 01941 01359 01306 00031	CLM .08340 .07303 .06109 .04886 .03527 .02843 .02241	CY 00873 00563 00563 00478 00247 00056 .00116	CBL0142001420010380062200418003500032300312	CYN06136061380003300033 .00007 .00040	CL .62746 .63292 .63991 .65236 .66872 .67934 .69678	CD .14059 .14005 .14121 .14500 .15187 .15537 .15778	CSL 01410 01052 00635 00428 00348 00312 00293 .00102	CLN .00212 .00072 .00022 .00013 .00053 .00085 .00114

DATE 04 DEC 75

TABULATED SOURCE DATA - CA20

			CY50	747/1	01 SI	c	ORBITER DATA		(NGNO7	3) (05 99	P 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	TT, XHRP YHRP ZHRP	.00	00 IN.XO 00 IN.YO 00 IN.ZO				ELV-IB = ELEVON = BETAO = PHI = DX =	.000 5.000 .000 .000	ELV-OB = HACH = EETAC = DY = ALPHAC =	3.080 .600 5.000 10.000 4.000
			RN/L =	3.24	GRADIENT INT	ERVAL =	.09/ 12.00				
ALPHAO =	10.000 02 .000 3.000 7.500 15.000 30.000 %5.000 60.000 GRADIENT	CN .39097 .40595 .42150 .44468 .47726 .49870 .52415 .00402	CA .00130 00075 00126 00189 00302 00305 00435 00032	CLH .05742 .04521 .03747 .02938 .02228 .01717 .00973 00259	CY .00091 .08069 00044 08096 00064 .00017 .00057 00019	CBL01510012130098100715004860038000306	CYN068200052700395002800010700009 .00085 .00030	Ct. .38480 .39992 .41531 .43845 .47053 .49166 .51694	CD .06917 .06975 .07195 .07539 .07990 .08359 .08574	CSL 01595 01286 01035 00753 00497 00368 00287 .00873	CLN 00348 00308 00218 00152 00059 .00137 .00018
ALPHAO =	14.000 OZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .60415 .61236 .62711 .64646 .67692 .69816 .70036	CA 01848 +.02225 02411 02510 02418 02160 02224 00072	CLH .07876 .06731 .05528 .04384 .03122 .02760 .02244	CY 00370 00352 00350 00398 00125 .00169	CBL 01327 00991 00559 00356 00249 00309 00315	CYN 00186 00145 00083 .00025 .00054 .00036 .00059	CL .59068 .59955 .61431 .63527 .65257 .67295 .69494	CD .12822 .12655 .12832 .13252 .14027 .14552 .14785 .00004	CSL 01333 00967 00659 00339 00291 00292 .00088	CLN .00140 .00097 .00079 .00111 .00113 .00110 .00133

DATE 04 DEC 75 TABULATED SOURCE DATA - CA20

GRADIENT

.00605 -.00048

-.00323

PAGE 678

			CA20	747/1	01 S1		ORBITER DATA		(NGND7	14) C 11 M	AR 75 )
	REFERENCE	E DATA							PARAMETRIC	DATA	
LREF -	650.0000 <b>50.</b> F 474.8100 IN. 935.6800 IN. .0300	YHRP YHRP ZMRP	• .00	00 IN.XO 00 IN.YO 00 IN.ZO				ELV-18 = ELEVON = BETAO = PHI = OX =	.000 5.000 .000 .000	ELV-OB = MACH = BETAC = DY = ALPHAC =	3.000 -600 5.000 10.000 8.000
			RN/L =	3.27	GRADIENT IN	TERVAL =	.00/ 12.00				
ALFHAO =	10.000										
	ĐZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CS1_	CLN
	. 808	.24945	.00661	.05510	.00560	01737	00915	.24451	.04993	01870	00599
	3.000	.26927	.00582	.04734	.00463	01446	00763	.26417	.05249	~.01557	00500
	7.500	.29737	.08447	.04112	.00241	01209	00634	.29208	.05604	01301	08414
	15.000	. 33519	.00272	.03380	.00061	00925	00478	.33061	.06106	00954	00310
	30.000	. 38914	.00099	.02690	00062	00650	00238	.38308	.06845	00691	00121
	45.000	.42834	00112	.02090	00005	00506	00128	.41611	.07223	00520	00038
	69.000	.45532	00339	.01495	.00091	00373	00037	.44899	.07574	00373	.00029
	GRADIENT	.00938	00029	00183	00044	.00069	.00037	.00633	.00092	.00074	.00024
			RN/L =	3.22	GRADIENT IN	TERVAL =	.00/ 12.60				
ALPHAO =	14.080										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	. 40393	01257	.00938	.00507	01987	00621	.47260	.10488	02079	00122
	3.000	.504 <b>07</b>	01467	.07591	.00338	01519	88494	.49264	.10771	01594	00112
	7.500	.52959	01622	.06471	.00026	01133	00319	.51778	.11238	01176	00035
	15.000	.56418	01937	.05435	00229	00754	00143	.55188	.11867	00766	.00044
	30.000	.61667	02020	.04175	00351	00353	.00059	.60324	.12959	00329	.00141
	45.000	.64773	02005	.03469	00235	00171	.0012	.63334	.13724	00136	.00160
	60.000	.67123	02166	.02700	.00027	00105	.00162	.65653	. 14137	00064	.00103

.00040

.00112

.00599

.00100

.00118

.00012

-.00055



TABULATED SOURCE DATA - CA20

CVSO 747/1 01 SI ORBITER DATA (NGN075) ( 11 MAR 75 ) REFERENCE DATA PARAMETRIC DATA 2690.0000 SQ.FT. XHRP 1109.0000 IN.XO ELV-18 -.000 ELV-08 -3.000 LREF 474.8100 IN. YHRO .0000 IN.YO ELEVON = 5.000 HACH .600 OREF -936.6800 IN. ZMR? 375.0000 IN.ZO BETAO .000 BETAC 5.000 SCALE = .0300 PHI .000 DY 10.000 ĐX 10.000 ALPHAC = 8.000 GRADIENT INTERVAL . RN/L = 3.24 .00/ 12.00 ALPHAO = 10.000 DZ CN CA CLH CY CBL CYN CL, CD CSL CLN .000 .22202 .00477 .03516 .08535 -.01615 -.00840 .21782 .04325 -.01737 -.00547 3.000 .24001 .00431 .03197 .00415 -.01406 -.00732 .23561 .04593 -.01511 -.00477 .02790 .00252 7.500 .56855 .00300 -.01167 -.00616 .26362 .04953 -.01256 ~.00405 15.000 .30802 .00130 .02257 .00115 -.00885 -.00454 .30410 .05494 -.00950 -.00294 30.000 .36161 -.00027 .02242 .00069 -.00649 -.00258 .35517 .06253 -.00E94 -.00141 45.000 .40215 -.00376 .01616 .00139 -.00523 -.00173 .39670 .06613 ~.00545 -.00080 60.000 .43741 -.00663 .01121 .00297 -.00435 -.00071.43192 .06942 -.00440 .00005 GRADIENT .00517 -.00024 -.00096 -.00038 .08059 .00029 .00612 .00083 .00063 .00019 RN/L · 3.23 GRADIENT INTERVAL . .00/ 12.00 ALPHA0 = 14.000 DΖ CN CA CLM CY CBL CYN CL CD ĊSL CLN .000 .46667 -.01680 .07250 .00821 -.01985 -.80715.45688 .09860 -.02099 -.00213 3.000 .48034 -.01953 .06082 .00503 -.01619 -.005B5 .47656 .03919 ~.01712 -.00176 7.500 .51602 -.02124 .05220 .00309 -.01298 -.00404 .50583 .10423 -.01357 -.00078 15.000 .54887 -.02328 .04639 .00603 -.00876 -.00223 .53020 .11019 -.00904 -.000004 30.000 .60493 -.02588 .03653 -.00116 -.00483 .00050 .59322 .12124 -.00457 .00165 45.000 .63933 -.02632 .03318 -.00105 -.00156 .00178 .62574 .12889 -.00109 .00210 60.000 .65976 -.02981 .02506 .00039 .00045 .00245 .65611 .13286 .00103 .00227 GRADIENT .00655 -.00058 -.00264 -.00069 .00090 .00041 .00649 50100. .00097 .00018

\_\_\_\_

			CA20	747/1	01 51		ORBITER DATA		(NGN07	61 (11 H/	IR 75 )
	REFERENCE	DATA							PARAMETR10	DATA	
	2690.0000 SQ.F 474.8100 IN. 935.6990 IN. .0300	T. XOHROP YMSOP ZMAP		0 IN.XO 0 IN.YO 0 IN.ZO				ELV-IB = ELEVON = EETAO = PHI = DX =	.080 5.000 .000 7.500	ELV-08 = MACH = BETAC = DY = ALPHAC =	3.000 .600 -5.000 .000 4.000
			RN/L =	3.22	GRADIENT INT	ERVAL -	.00/ 12.00				
ALFHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 %5.000 60.000 GRADIENT	CM .E6215 .59918 .41128 .43311 .46642 .47776 .48980 .00381	CA .00401 .00176 .00100 00043 00141 00106 00049 00038	CLM .08289 .04181 .03735 .02686 .02600 .01622 .01183 00199	CY017870137900926005760008000007 .00114 GRADIENT INT	CBL .00819 .00629 .00481 .00299 .00078 00083 00817 00047	CYN .00298 .00296 .00142 .00121 .00068 00009 00078 00019	CL .37565 .39162 .40486 .45564 .47069 .48245 .00382	CO .07031 .07087 .07240 .07478 .07691 .08192 .08457	CSL .00856 .00558 .00479 .00314 .00068 00665 00227 00050	CLM .00191 .00113 .00069 .00069 .00066 00039 00011
ALFHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .63229 .63829 .64692 .66022 .66449 .69381 .70710	CA 00945 01090 01192 01196 01210 01355 01359 00022	CLM .07072 .06199 .u5380 .04333 .02553 .02504 .02691	CY 02109 01722 01207 00924 00518 00503 00391	CEL .00100 .00463 .00290 .00109 0088 00081 00139	CYN .60090 .00023 00047 00101 00179 00159 00137	CL .61579 .62197 .62562 .64350 .66709 .68133 .66939	CD .14379 .14384 .14469 .14811 .15385 .15591 .15787	CSL .00514 .00455 .00270 .00080 00129 00117 00169 00045	CLN 00060 00050 00116 00124 00153 00100 00007

DATE 64 D	EC 75	TABULA	NTED SOURCE	DATA - C	A20					PAI	183 SJ
			CA20	747/1	01 51		ORBITER DATA	į	(NGNO7	7) (11 H	AR 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 1 LREF = EREF =	2690.0000 SQ.F 474.8100 IN. 935.6800 IN.	T. XHRP YHRP ZHRP	00	02.41 60 07.41 00				ELV-18 = ELEVON = BETAD =	.000 5.000 .000	ELV-08 = MACH = BETAC =	3.000 .600 -5.000
SCALE =	.0380							PHI =	7.500 10.000	DY - ALPHAC -	.600 4.600
	•		RN/L =	3.29	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.34244	.00938	.05006	01592	.01118	.00257	. 33561	.06970	.01146	.00059
	3.000	.36660	.00520	.03494	01376	.00924	.00273	.35996	.06977	.00859	.00126
	7.500	. 36243	.08485	.03073	00853	.90652	.00167	. 37577	.07120	.00671	.00051
	15.090	.41027	.06214	.02052	00591	.08432	.00140	.40367	.07335	.00450	.00063
	30.000	.44510	.08073	.01343	00176	.00148	.00086	.43821	.07801	.00161	.00058
	45.008	.46378	.00115	.01197	00019	00022	08019	.45552	.08166	00025	00015
	60.000	.48399	000B4	.00578	.00105	00117	00081	.47678	.08322	00129	00060
	GRADIENT	.00519	00059	00245	.00100	00060	00013	.00521	.00033	00062	00002
			RN/L =	3.29	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	14.080										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.57963	09734	.08551	01599	.00953	08971	.55322	.13286	.00208	00299
	3.000	.60026	01170	.06603	01375	.00621	00051	.58526	.13397	.00590	00200
	7.500	.61669	01430	.05236	00928	.00274	00145	.60183	. 13531	.00231	00207
	15.000	.63554	01469	.04267	+.00545	00011	00231	.62060	.13960	00066	00221
	30.000	.66924	01636	.02991	00194	00197	00308	.65332	.14603	00265	00249
	45.000	.69797	01622	.02350	00052	00331	00380	.67146	.15070	00413	00289
	60.080	.69722	01464	.02025	.00017	00376	00337	.68010	. 15428	06446	00236
	GRADIENT	.00496	00090	08443	.02820	00089	00011	.00503	.00033	00069	.00011

PAGE 622 TABULATED SOURCE DATA - CARD DATE C4 DEC 75

			CA20	747/1	01 S1		ORBITER DATA	١.	(NGN07	18) (11 M	AR 75 J
	REFERENC	E DATA						1	PARAMETRIC	DATA	
SREF # 8 LREF # BREF # SCALE #	2690.0000 SQ. 474.8100 IN. 936.6800 IN. .0300	FT, XHRP YHRSP ZMRP	00	888 IN.XO 880 IN.YO 880 IN.ZO				ELV-IB = ELEVON = EETAO = PHI = OX =	.000 5.000 .800 7.500	ELV-OB =  MACH =  BETAC =  OY =  ALPHAC =	3.000 .600 -5.000 .000 8.000
			RN/L =	3.21	GRADIENT IN	ITERVAL =	.00/ 12.00				
ALPHAO .	10.000										
	OZ	CN	CA	CLM	CY	CBL	CYN	CL	CD	CSL	CLN
	.080	.22437	.01061	.03780	02408	.01273	.00135	.21912	.04941	.01278	00033
	3.000	.24691	.01011	.03519	01850	.01018	.00167	.24337	.05318	.01032	00012
	7.500	.27884	.06927	.03273	01241	.00807	.00159	.27280	.05752	.00223	.00016
	15.000	.32648	.00824	.02840	00721	.00544	.00145	.31418	.06377	.00551	.00048
	30.000	. 39226	. 00546	.02017	~.00257	.00216	. 80897	. 37550	.07176	.00230	.00058
	45.000	.41892	E##30.	.01559	00066	.00843	.00010	.41178	.07710	.00044	.00002
	60.000	44362	.00591	.01379	.00142	00131	08050	.43585	.08268	00138	00026
	GRADIENT	.00719	00018	08065	.60154	00051	.00003	.00711	.00107	00060	.00013
			RN/L •	3.30	GRADIENT IN	ITERVAL =	.00, 12.00				
ALPHAO =	14.000										
	DZ	Ct/l	CA	CLM	CY	CBL	CYN	CL	CD	CST	CLN
	.000	.47136	01174	.07054	03289	.01271	.00237	.46020	.10264	.01290	00078
	3.000	. 45474	013 <b>67</b>	. 06227	02695	.01029	10500.	.48335	. 10643	.01047	00054
	7.530	.52221	01489	.05552	02022	.00802	.00133	.51030	.11190	.00911	00065
	15.000	15522.	01617	.04594	01435	.00528	.0000	.54543	.12032	.00535	00048
	30.080	.61597	01619	.03560	60777	.00227	00016	.60149	.1332	.00216	00070
	45.000	.64899	61653	.02844	00496	.00010	00131	.63372	. 14095	00022	00130
	69.000	.65820	01644	.02598	00320	00046	00168	.65233	. 14570	00090	00171
	GRADIENT	.00673	00041	00198	.00167	0062	00014	.00653	.00123	00063	.00001

## TABULATED SOURCE DATA - CA20

.44743

.47655

.51926

.58946

.63438

.65537

.00911

3.000

7.500

15.000

30.000

45.000

60.000

GRADIENT

-.00851

-.01154

-.01451

-.01823

-.02177

-.02102

-.00116

.05305

.04801

.04117

.03463

.02647

.02770

-.00304

-.02869

-.02024

-.01341

-.00504

-.00351

-.00203

.00165

(NGN079) ( 11 HAR 75 ) ORBITER DATA CA20 747/1 01 St PARAMETRIC DATA REFERENCE DATA 3.000 ELV-IB -.000 ELV-09 \* 2690.0000 SQ.FT. XHRP 1109.0000 IN.XO SREF = HACH .600 ELEVON -5.000 474.8100 IN. YHRP .0000 IN.YO LREF BETAD = .000 BETAC -5.000 ZHRP 375.0000 IN.ZO BREF 936.6900 IN. 7.500 .000 PHI DY SCALE = .0300 DΧ 10.000 ALPHAC = 8.000 GRADIENT INTERVAL . .00/ 12.00 3.28 RN/L = ALPHAO = 10.800 CLN CD CSL CLH CY CBL CYN CL CA DΖ CN .01484 -.0005+ .02277 -.02364 .01392 .00191 .18683 .04719 .01403 .000 .19218 .01155 .00228 .21397 .05014 .01177 .00024 .01849 -.01857 3.000 .21942 .01222 .00217 .24039 .05437 .00993 .00046 .01939 -.01269 .00970 .24618 .01180 7.500 .00205 .28347 .06128 .00739 .00078 .00715 .01910 -.00748 .28684 .01164 15.000 .00059 .00350 -.00238 .00344 .00119 .34786 .06983 .00936 .01372 30 000 .35470 .00117 -.000008 .38882 .07641 .00114 -.00028 .00020 45.000 .39518 .00773 .01295 .0840B -.00094 -.00037 .40630 .01764 .00341 -.00086 -.00053 60.000 .41473 .01225 .00013 -.00840 .00146 -.00055 .00003 .00704 .00098 -.00054 -.00028 GRADIENT .00710 RN/L = 3.27 GRADIENT INTERVAL . .00/ 12.00 ALPHAO = 14.000 CLN CBL CYN CL CD CSL CN CA CLM ĊY DZ .09589 .01664 -.00069 .00345 .39522 -.00257 .07205 -.03279 .01630 .40668 .080

.01213

.00960

.00640

.00230

.00069

.00050

-.00087

.00305

.00206

.00122

.00011

-.00139

-.00270

-.00019

.43520

.46529

.50734

.57539

.62080

.64099

.00911

.89999

.10411

.11154

.12467

.13235

.13815

.00:08

PAGE 583

.01251

.00981

.00550

.00228

.00033

-.00017

-.00069

.00003

-.00032

-.00036

-.00045

-.00151

-.00274

.00003

			CA20	747/1	01 SI		ORBITER DATA		(NGN88	90) (11 H	AR 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 1 LREF = EREF = SCALE =	2690.0000 SQ.F 474.0100 IN. 936.6900 IN. .0300	T. XHRP YHRP ZHRP	00	00 IN.XO 00 IN.YO 00 IN.ZO				ELV-IB = ELEVON = ESTAO = PHI =	.000 5.000 .000 7.500	ELV-08 = MACH = BETAC = DY =	3.000 .600 -5.000
								DX =	.000	ALPHAC =	4.000
			<b>いい</b> -	3.33	GRADIENT IN	FERVAL -	.00/ 12.60				
ALPHAO =	10.000										
	02 .000 3.000 7.500 15.000 30.000 45.000	CN .37676 .39169 .40416 .42433 .45334 .47541	CA .00474 .00145 .09037 00133 00224 00370 00641	CLM .04868 .03778 .03395 .02777 .02221 .01548 .00602	CY 00598 00510 00388 00254 .00038 .00209	CBL .00035 00029 00075 00094 00190 00243	CYN 00841 00059 00044 .00013 .00077 .00078	CL .37021 .38548 .38796 .41811 .44684 .46893 .49592	CD .07009 .0694 .07055 .07651 .07691 .08093	CSL .00027 00038 00081 00090 00123 00173 00231	CLN 00046 00052 00031 .00029 .00101 .00110
	GRADIENT	.00358	00055	00198	.00028	80014	00000	.00363	.00008	00014	-00002
			FINAL =	3.32	GRADIENT INT	ERVAL +	.00/ 12.00				
ALFHAO +	14.800										
	ĐZ	CN	CA	CLN	CY	CP1.	CYN	CL	CD	CSL	CLN
	.000	.66689	01690	.04444	01166	.00211	.00301	.65165	.14299	.00278	.00241
	3.000	.67155	02046	.03625	~.00959	.00160	.00208	.65655	. 14261	.00206	.00163
	7.500	.67446	02094	.03015	00670	.00068	.00126	.65949	. 14285	.00897	.00105
	15.000	.67614	01903	. 02992	00339	00854	.00101	.66066	.14511	00028	.00111
	30.000	.66942	01659	.02785	.00135	00179	.00093	.67295	.15069	00151	.00133
	45.000	. 70441	01671	.02165	.00347	00229	.00090	.68753	.15420	00200	.00142
	60.000	.71503	01653	.01735	.08543	00262	.00093	.69779	. 15694	00231	.00159
	GRADIENT	.00099	00026	69100	.00056	00019	00023	.00102	00001	00024	00018

GRADIENT

.00289

-.00054

-.00223

TABULATED SOURCE DATA - CA20

PAGE 685 CA20 747/1 01 S1 ORBITER DATA (NGN081) ( 11 MAR 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SQ.FT. XHRP - 1109.6080 IN.XO ELV-18 -.000 ELV-09 = 3.000 LREF -YHRP .0080 IN.YO ELEVON = 474.8100 IN. .600 5.000 HACH 936.6800 IN. ZMRP 375.0080 IN.ZO DETAD BREF = .000 BUTAC --5.000 SCALE = .0300 PHI 7.500 TIY 10.000 DX 10.000 ALPHAC = 4.000 RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000 DZ CA CLH CY CBL CYN CN CL CD CSL CLN .03095 .000 .00318 -.01074 .00246 .370/52 -.08093 .36434 .08747 .00228 -.00125 3.000 .38341 .00150 .02530 -.00984 .00146 -.00080 .37732 .05905 .00130 -.00104 7.500 .39479 .00071 .02538 -.00757 .00068 -.00087 .39855 .06925 .00052 -.00098 -.00039 -.00599 15.000 .41437 .02260 -.00018 -.00048 .40814 .07157 -.00027 -.00045 30.000 .45008 -.00316 -.07281 .01678 -.00105 .00009 .44379 .07504 -.00102 -00027 45.000 .46933 -.00336 .01484 -.(3087 -.00177 .00008 .46279 .07819 -.00173 .00039 60.000 .48178 -.00226 .01531 .00113 -.00250 .00003 .47486 .08143 -.00245 .00046 GRADIENT .00318 -.00032 -.00068 .00043 -.00023 -.00001 .00319 .00024 -.08023 .00003 RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000 02 CLH CY CBL CN CA CYN CŁ CD CSL CLN -.02113 .000 .62873 -.02214.04507 .00373 .00087 .61541 .13062 .00378 -.00025 3.000 .64083 -.02534 .03367 -.01896 .00302 -.00032 .62197 .13045 .00285 -.00104 7.500 .65081 -.02636 .02777 -.01646 .00237 -.00069 .63726 .13187 .00213 -.00123 -.02529 -.01301 15.000 .65390 .02396 .00079 -.00100 .65029 .13607 .00052 -.00116 30.000 .67610 -.01921 .02775 -.00894 -.00176 -.00151 .69065 . [4492 -.00207 -.00104 45.000 .69285 -.01836 .02296 -.00448 -.00245 -.00161 .67671 . 14980 -.00277 -.00097 60.000 .70404 -.01702 .02804 -.00203 -.00270 -.00123 .68725 .153B1 -.00292 -.00054

.00062

-.00018

-.00017

resoo.

.00018

-.00021

-.00018

										۲,	ADE BEB
			CA	120 747/1	01 51		ORBITER DATA	A	INGNO	32) (11 F	TAR 75 )
	REFER	ENCE DATA									
									PARAMETRIC	DATA	
EREF • LREF • EREF • SCALE •	2620.0000 9474.8100 935.6800 .0300	IN. YHRP	<b>375</b>	.0000 IN.XC .0000 IN.YC .0000 IN.ZC				ELV-IB = ELTAO = FH1 = OX =		ELV-09 = MACH = BETAC = DY = ALPHAC =	3.000 .600 -5.000 10.000 9.000
			RN/L	• 3.26	GRADIENT	INTERVAL -	.00/ 12.00				
ALPHAO =	10.000										
	02 .000 3.080 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .21900 .24917 .27969 .32289 .39235 .42312 .45944 .00789	CA .00999 .00894 .00752 .00545 .00331 .00108 ~.00089	CLH .03219 .03091 .02936 .02670 .02295 .01761 .01303 09037	CY003003003000 .000 .0016 .0006	00134 .00034 .00046 .00046 .00146 .00199 .00252	CYN 00148 00143 00089 .00024 .00053 .00064 00090	CL .21394 .24385 .27413 .31703 .37596 .41650 .45262 .00792	CD .04787 .05197 .05597 .06143 .06655 .07454 .07691	CSL .00223 .00108 .00009 00057 00139 00187 00237 00239	CLN 00161 00169 00147 00060 .00049 .00087 .00106
				3.40	CHONDICIAI	IMIEHANE a	.00/ 12.00				
ALCHAO =	19.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .51863 .53414 .55562 .55562 .62955 .62955 .66108 .68036	CA 02051 02199 02264 02204 02072 01972 01745 00029	CLM .04226 .03869 .03467 .03448 .03125 .02649 .02361 ~.00160	0069 005 005 005 0010 .0009 .0039	8 .00033 5 .00032 6 .00033 500079 400097 300145	CYN .00042 .00023 .00085 .00159 .00180 .00194 .00173	CL .50821 .52359 .54464 .57182 .61586 .64621 .66437 .00484	CD .10547 .10769 .11225 .11985 .13220 .14079 .14766 .00091	CSL .00088 .00037 .00051 .00042 00033 00048 00089 00004	CLN .00015 .00075 .00153 .00154 .00212 .00203

										PA	IUE EST
			CA20	747/1	01 S1		ORBITER DATA	A	(NGN0)	93) (1 <u>1</u> M	IAR 75 )
	REFERS	NCE DATA							PARAHETRIC	DATA	
SREF =	2690.0000 S	O.FT. XHRP	• 1109.0	080 IN.XO	)			ELV-18 =	.000	ELV-08 +	3.000
LREF =	474.8100 I	N. YHRP	0:	000 IN.YO	)			ELEVON -	5.000	MACH =	.600
BREF =	938.6800 I	N. ZMRP	• 375.8	000 IN.20	1			BETAD -	.000	BETAC -	-5.000
SCALE -	.0300							PHI =	7.500	DY =	10.000
								OX =	10.000	ALPHAC =	B.000
			RN/L =	3.25	GRADIENT	INTERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.22335	.00913	.01209	0096		00152	.21837	.04778	.00339	00214
	3.000	.23922	.00935	.01546	0089		00163	.23397	.05075	.00257	00214
	7.500	.26524	.00846	.01729	0079		00149	.25974	.05439	.80189	00184
	15.000	.31115	.00533	.01493			08094	.30549	.05928	.00102	00184
	30.000	.37100	.00326	.01622	0031		00024	.36479	.06764	- 00053	00115
	45.000	.41094	.0015.2	.01456	8010		00010	.40443	.07285	00156	00013
	69.000	.43482	.00053	.01151	.0021		.00103	.42813	.07603	00247	.08017
	GRADIENT	.00560	08010	.(:)38 <b>7</b>	.0002	200020	.00001	.00553	.000BB	00019	.00064
			St./c. ∗	5. <b>2</b> %	GRADIENT .	INTERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	CN	CA	CLM	ÇŸ	CBL	CYN	CL	CD	•~	
	.000	.47811	01985	.03034	J1609		00161	.46871		CSL	CLN
	3.000	49908	02248	.02516	01750		00159	.46969	.09540	.00260	00231
	7.500	.52352	02465	.02408	01617		00155	.51393	.09892 .10272	.00167	00284
	15.000	.56198	02702	.02275	01448		00089	.55183		.00100	00165
	30.000	.60914	02489	.02803	- 00976		00059	.59707	.10974 .12321	00038	00082
	45.000	.64649	02462	.02541	00843		.00021	.63324	. 13251	00061 00007	.00000
	60.000	-66352	01969	.02758	00497		00001	.64657	.14141		.00024
	<b>GRADIENT</b>	.00801	08063	60079	.00026		.00001	.00598	.00084	00027	.00005
						.00011	. 50001		.00054	00021	.00005

## TABULATED SOURCE DATA - CA20

(NGN084) ( 11 MAR 75 ) ORBITER DATA CARD 747/1 01 St PARAMETRIC DATA REFERENCE DATA .000 ELV-09 = 3.600 xxxP = 1109.0000 IN.X0 ELV-18 . SREF = 2690.0000 SQ.FT. MACH = -600 ELEVON = 5.000 .0000 IN.YO 474.8100 IN. YEAR = .000 e CATES .000 EETAC 375.0800 IN.ZO ZHRP . BREF = 936.680D IN. PHI 7.500 DY .000 SCALE = .0300 4.000 .000 ALPHAC = DX .00/ 12.00 GRADIENT INTERVAL = ALPHAO = 10.000CD CSL CLN CBL CYN CL CLM CY DΖ CA 4 .07157 .06077 -.88184 .00094 -.00089 .39541 .00339 .05314 -.00344 .000 .39297 .00074 -.00073 -.00359 .08096 -.00059 .39999 .07171 .04222 .40528 .00135 3.000 .07313 .0003B -.00073 -.00302 .00051 -.00065 .41136 .00059 .03575 7.500 .41781 -.00035 .00011 .00017 -.00034 .43125 .07570 .43785 -.00033 .02771 -.00275 15.000 -.00163 -.08059 -.00014 .45611 .07973 -.00061 -.00004 .46303 -.00069 .02127 30,000 -.00012 .08227 -.00142 .4756B -.00159 .01419 -.00127 -.00137 -.00036 45.000 .48274 -.00032 .08636 -.00091 -.00227 -.08072 .49053 .09376 -.00236 -.00269 60.000 .49762 .00328 .00022 -.00005 .00004 -.00006 .00003 -.00225 .00006 -.000Z6 GRADIENT .00327 GRADIENT INTERVAL = 00.51 \00. RN/L = 3.19 ALPHAD = 14.000 CD CSL CLN CY CBL CYN CL CLH CA ÐΖ CN -.00217 -.00214 .59418 .13692 -.00015 -.00720 .00036 .60965 -.01089 .06297 .600 .13842 -.00043 -.00210 -.00214 .60557 -.01219 .05276 -.00735 .00009 .62107 3.600 -.00033 -.80137 .60532 .13846 -.00722 .00013 -.00190 -.01210 .05050 7.500 .62093 -.00,61 -.00171 .61623 .14095 -.00859 -.01231 .04115 -.00697 -.00018 15.000 .63202 .64332 .14767 -.00155 -.001 1 -.00117 -.00175 -.01235 .02917 -.00518 30.000 .65994 -.0020t -.00:33

.65235

.68996

.00136

. 15125

.15845

.00019

-.00257

-.00002

PAGE 688

-.30:17

.00004

.02318

.01994

-.00157

.65957

.70780

.00137

45.000

60.000

GRADIENT

-.01106

-.01317

-.00015

-.00478

-.00355

.00000

-.00163

-.00221

-.00003

-.00177

-.00176

.00803

## TABULATED SOURCE DATA - CA20

			CA20	747/1	01 51		ORBITER DATA		CNGNOS	81 CII N	AR 75 )
	REFEREN	CE DATA							PARAHETRIC	DAT.	
SREF = ; LREF = BREF = SCALE =	2690.0000 SQ. 474.8100 IN. 936.6900 IN. .0308	YHRP	<b>-</b> .69	00 IN.XO 00 IN.YO 00 IN.ZO				ELV-IB = ELEVON = BETAO = PHI = DX =	.000 5.000 .000 7.500 10.000	ELV-08 = MACH * BETAC = DY = ALPHAC =	3.880 .600 .000 .000 4.000
			RM/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.800	.35554	.00682	.0-793	00305	.00160	00845	.34895	.05946	.00150	00072
	3.000	37158	.00422	.03562	00322	.00139	00035	.36520	.06868	.00131	00059
	7.500	.38760	.00282	.02949	~.00271	.00099	00034	.38122	.07009	16300.	00051
	15.080	.41021	.00151	.02154	00302	.00070	00011	.40372	.07272	.00067	00023
	30.080	.44344	.00069	.01533	00176	00005	.00018	.43658	.07769	00002	.00019
	45.080	.46271	.00011	.01211	00091	00111	00019	.45567	.08046	00112	.00001
	60.000	.47967	00016	.01011	.00045	00232	00051	.47241	.08313	~.00237	00010
	GRADIENT	.00422	00052	00251	.08885	00008	.00001	.00424	.00022	00008	.00003
			RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAD =	14.000										
	DZ	ÇN	CA	CLM	CY	CBL	CYN	CL	CD	CSL	CLN
	.020	.59755	01487	.07840	00722	.00070	00197	.59339	.13014	.00928	00208
	3.080	.61401	01891	.0603B	00756	.00058	00166	.60034	.13019	.00016	00175
	7.500	.63166	02115	.04699	00741	.00837	00173	.61802	.13229	00006	00177
	15.000	.65166	02024	.03562	00555	00111	00243	.63740	.13836	00167	96209
	30.000	.69330	D1895	.02451	00265	~.00285	00318	.66759	.14692	00353	00240
	45.000	.70104	0:576	.02387	00384	00256	00278	.68403	.15430	00316	00208
	60.000	.69879	01479	.02039	00209	00322	00234	.69161	.15471	00369	00149
	GRADIENT	.00450	0008t	00422	00002	00004	.00003	.00455	.00030	00004	.00804

			CA28	747/1	01 SI		ORBITER DATA		tNGNSS	(6) (11 Hz	VR 75 1
	REFERENCE	DATA						Þ	'ARAMETRIC	DATA	
LREF =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	T. XHRP YHRP ZHRP	80	80 IN.XO 80 IN.YO 80 IN.ZO				ELV-1B = ELEVON = ESTAO = PHI = DX =	.000 5.000 .000 7.500	ELV-09 = MACH = BETAC = DY = ALPHAC =	3.000 .600 .000 .000 8.000
			RN/L =	3.22	GRADIENT INT	ERVAL =	.00/ 12.60				
ALPHAO a	10.000 0Z .008 3.009 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .23009 .25458 .28144 .22199 .38299 .41690 .44806 .00678	CA .01156 .01014 .00854 .00743 .00519 .00427 .00387 00034	CLH .04218 .03629 .03233 .02753 .02041 .01651 .01408 00128	CY803610029900350003320015900059 .00033 .00002	CBL .00400 .00290 .00307 .00211 .90057 00060 00189 00012	CYN .08050 .00041 .08014 .09017 .08097 08024 08005	CL .22459 .24695 .27561 .31580 .37626 .41170 .44053 .00673	CD .05134 .05419 .05769 .06322 .07162 .07293 .08162 .00064	CSL .00402 .00362 .00305 .00211 .00057 00064 00189	CLN 00021 00023 00039 00003 00003 00016 .00009 00003
ALFHAD =	19.000 DZ .600 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .494.63 .51113 .532.03 .55914 .60639 .64185 .67307	CA 01476 01628 01633 01763 01694 01671 01671 00021	CLM .06389 .05716 .05291 .04426 .03395 .03011 .02697	CY01051010540103901002007520059900451	CBL .60376 .60337 .00201 .00232 .00129 .00005 00057	CYN0002100011000090001600020001080012900001	CL .48351 .49928 .52025 .55650 .59248 .62692 .65712 .00487	CD .10534 .10765 .11278 .12058 .13026 .13907 .14652	CSL .00360 .00324 .00270 .00229 .00121 00021 00066 00012	CLN 00111 00092 00077 00041 00051 00107 90111 .00004

GRADIENT

.69983

.00723

-.02244

-.00088

PAGE 691 CA20 747/1 OISI DRBITER DATA (NGN087) [ 11 HAR 75 ] PARAMETRIC DATA REFERENCE DATA ELY-18 = .000 ELV-08 -3.000 SREF = 2690.0000 SQ.FT. XHRP - 1109.0000 IN.XO ELEVON -5.000 HACH = .600 .0000 IN.YO LREF = 474.8100 IN. YHRP BETAC = .000 ZHRP = 375,0000 IN.ZO = 0AT38 .000 936.6800 IN. BREF = PHI 7.500 DY .080 SCALE = .0300 DX 10.000 ALPHAC -8.000 3.28 GRADIENT INTERVAL -.00/ 12.00 RN/L = ALPHAO = 10.000CSL CLN CY CBL. CYN CL CO CA CLH DZ CN .00057 .04846 .08435 .01357 .02665 -.00328 .00419 .00132 .19667 .000 .20210 .00392 .00115 .21878 .05096 .00405 .00045 .01219 .02293 -.00376 3.000 .22430 .00043 -.00363 .00342 .00103 .24479 .05491 .00354 .23061 .01157 .02235 7.500 .05073 .00276 .00018 .01049 .02039 -.00285 .00268 .00065 10485 15.000 .29024 .05854 .00149 .00030 -.00170 .00141 .00055 34732 .00729 .01416 30.000 .35396 .38624 .07455 -.00022 -.08017 -.00003 -.00018 -.08021 45.000 .39331 .00635 .01409 .00061 .00759 .01816 .00254 -.u0215 .00024 .40848 .07973 -.00208 .41612 69.000 .00086 -.00011 -.00002 -.00054 -.000004 -.00010 -.00084 .00637 +.00026 **GRADIENT** .00642 3.27 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAO = 14.000 CBL CYN CL CD CEL CLN DZ CN CA CLH CY -.00977 .00462 -.00699 .05514 -.08989 .00466 .00037 .41849 .09713 .000 .42955 .00390 .00029 .45041 .09914 .00385 -.000E6 -.00991 3.000 .46101 -.01277 .04623 .00311 -.00051 .47396 .10372 -.01482 .04397 -.08997 .00317 .00016 7.500 .48497 -.00055 .03558 -.00888 .00195 -.0000B .51651 .10937 .00169 15.000 .52775 -.01835 -.00617 .00015 -.80054 .60080 .12730 -.00006 -.00065 .61375 -.02182 .02960 30.000 -.00149 .13934 -.00152 .02892 -.00475 -.00112 -.00181 .65199 -.02350 45.080 .66608

.02980

-.00264

-.00345

-.00001

-.00090

-.00020

-.00175

-.00003

.69350

.00723

, i4729

.00099

-.00130

-.00020

-.00148

-000005

GRADIENT

-.00105

-.00013

.0000B

.08019

-.00005

-.00116

.00028

.60018

-.00009

			CV50	747/1	01 51		ORBITER DATA	l .	(NGN0E	9) (11 M	NR 75 )
	REFERENC	E DATA						1	PARAMETRIC	DATA	
LREF - 474.8100 IN. YMRP			= .00	88 IN.XO 88 IN.YO 80 IN.ZO				ELV-18 = ELEVON = BETAO = FH1 = DX =	.000 5.000 .000 7.500	ELV-08 = MACH = BETAC = DY = ALPHAC =	3.000 .600 .600 10.000 4.000
		•	RN/L =	3.34	GRADIENT INT	TERVAL -	.00/ 12.00	<i>5x</i> -	2000	AD 1349 -	11000
ALPHAO =	10.000						•				
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.37853	.00303	.05395	.00365	00548	00322	.37029	.06937	00596	00222
	3.000	.39968	.00130	.04463	.00230	00474	~.00273	.38352	.06854	00514	00187
	7.508	.40266	.00843	.03818	.00171	00415	00234	.39637	.07033	00449	00158
	15.608	.42526	00231	.02878	.00865	00328	00140	.41920	.07157	00347	000B1
	30.000	.45327	00273	.02235	.00132	00263	.00001	.44695	.07602	00259	.00047
	45.000	.47303	00354	.01649	.00199	00241	.00048	.46545	.07855	00231	.00082
	GD.000	.45401	00540	.00973	.00239	00197	.00021	.48744	.08947	00190	.00055
	GRADIENT	.00342	00033	00205	00027	.00017	.00012	.00343	.00027	.00019	.0008
			RN/L =	3.32	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	CN	CA	CLII	CY	CBL	CYN	CŁ	CD	CSL	CLN
	.009	.67640	02643	.04077	00284	00288	.00857	.66270	.13799	00266	.00125
	3.809	.65972	02391	.04209	00240	00219	.00025	.65559	.13692	00207	-00078
	7.509	.66905	02218	.04001	00220	00142	.00017	.65359	.14010	80133	.00051
	15.000	.67660	02162	.03243	00140	00147	.00035	.66367	.143.9	00135	.08070
	30.000	.69233	01838	.02685	.00192	00248	.00035	.67685	.14952	00232	.00054
	45.000	.78495	01735	.02231	.00339	00272	.00048	.68821	.15370	00252	.00112
	60.000	.71342	01673	.01820	.00524	00293	.00059	.69527	. 15536	00270	.00127
							***		00000	/ 6646	00000

GRADIENT

-.01650

-.00008

.70134

.00163

02240

-.00112

-.00212

.00006

-.00335

.00022

-.00179

-.00003

.66500

.00160

.15162

.00032

-.003E9

.00021

-.00092

-.00009

CY50 747/1 OI SI ORBITER DATA (NGN089) ( 14 MAR 75 ) REFERENCE DATA PARAMETRIC DATA 2690.0000 SQ.FT. SREF = XHRP = 1109.0000 IN.XO ELV-IB = ELY-08 -.000 3.000 474.8100 IN. YMRP .0000 IN.YO ELEVON = 5.000 HACH .600 BREF = 935.6900 IN. ZMRP 375.0000 IN.ZO BETAD = .000 BETAC -.000 SCALE = .0380 PHI 7.500 DY 10.000 ĐΧ 10.000 ALPHAC = 4.880 3.32 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 18.000 ĐZ CN CLH CY CA CBL CYN CL CD CSL CLN .600 .37030 .00222 .03671 -.00179 +.00419 -.00331 .36429 .05548 -.00470 -.00253 3.000 .38166 .00050 .03098 -.08230 -.00372 -.00323 .37577 .05577 -.00422 -.00254 7.500 .39526 -.00041 .02752 -.00293 -.00342 -.00294 .38932 .06823 -.00388 -.00230 15,000 .41512 -.00113 .02343 -.00347 -.00291 -.00197 .41000 .07115 -.00321 -.00144 30.000 .44774 -.00296 .01909 -.00270 -.00249 -.00077 .44145 .07483 -.00259 -.00033 45.000 .46748 -.00303 .01574 -.00125 -.00248 -.00011 .48090 .07820 -.00247 .00032 60.000 .48269 -.00095 .01553 .00071 -.00274 .00090 .47552 .09228 -.00254 .00135 GRADIENT .00330 -.00034 -.00119 -.00016 .00010 .00005 .00331 .08024 .00011 .00003 RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00 ALPHA0 = 14.080 DZ CN CA CLH CY CBL CYN CL CD CSL CLN .000 .63638 -.02910 .04317 -.01365 -.00325 -.00148 .62452 .12572 -.00351 -.00055 3.000 .54216 -.03057 .03533 -.01263 -.00194 -.00191 .63048 .12569 -.00235 -.00138 7.580 .64874 -.02983 .03435 -.01257 -.00151 -.00177 .63659 .12801 -.00189 -.00135 15.000 .67133 -.03102 .02419 -.01147 -.00110 -.00173 .65989 .13231 -.00148 -.00141 30.000 .63095 -.02185 .02746 -.00721 -.00268 -.00205 .66501 . 14354 -.00310 -.00134 45.000 .69505 -.02080 .02507 -.00446 -.00335 -.00227 .67944 .14797 -.00380 -.00139

PAGE 693

DATA - CA20

						•				PA	IGE <b>69</b> 4
			CAEO	747/1	01 \$1		ORBITER DATA		ENGNO	30) (II H	IAR 75 )
	REFEREN	E DATA							PARAHETRI	: DATA	
SREF = LREF = BREF = SCALE =	2699.0000 SQ. 474.8100 IN. 936.6900 IN. .0390	. YHRP	• .00 • 375.00	1N.XO 180 1N.YO 1N.ZO				ELV-IB = ELEVON = BETAO = PHI = DX =	.000 5.000 .000 7.500 .000	ELV-09 = MACH = GETAC = DY = ALPHAC =	3.000 .600 .000 10.600 8.000
			RN/L =	3.27	GRADIENT	INTERVAL -	.60/ 12.00				
ALFHAO #	DZ .080	CN .22171	CA .00966	CLH .03998	CY .0108		CYN 00330	CL .21667	CD .04802	CSL ~.00563	CLN 00236
	3.000 7.500	.24785 .28086	.00816	.03549	.0069		00327	.24267	.05107	00485	00246
	15.000	.32051	.00605 .00526	.03073	.0040		00276	27554	.05473	08420	00207
	30.000	.38215	.00253	.02396	.0017: .0012:		00195	.31473	.06093	00343	0013B
	45.000	.42269	.00233	.01780	.0012		00039	.37591	.06888	00271	.0000
	60.000	.46055	00105	.01244	.0028		.00020 93000.	.41618	.07366	00271	.00069
	GRADIENT	.00764	00048	00124	0007		.00088	.45373 .00781	.07654 .00089	E8500 01000.	.00120
			RN/L =	3.28	GRADIENT :	INTERVAL =	.00/ 12.00				
ALFHAO =	14.000										
	DZ	CN	CA	CLM	CY	CBL.	CYN	CL	CD	CSL	CLN
	.000	51592	02283	.04713	.08550	00589	00145	.50802	.10264	00606	.00002
	3.000	.53493	02399	.04048	.00350		80895	.52485	.10615	00448	-00015
	7.500	.55516	02369	.03550	.00029		00023	.54542	.11136	00294	.00050
	15.000	.58500	02372	.03417	00169		.00067	.57434	. 11875	00197	.00118
	30.000	.63249	02253	.02940	00046		.00151	.61915	.13115	00118	.00185
	45.00D	.66043	01989	.02729	.00053		.00216	.64562	.14048	00051	.00235
	60.000 GRADIENT	.68418	01980	.02127	.00289		.00222	.66965	.14630	80070	.00246
	CHADIENI	.00533	00013	00137	00093	.00038	.00016	.00520	.00116	.00041	.00007

.-

DATE 04 DEC 75	TABULAT	TED SOURCE D	DATA - CA	120					PAC	E 695
		CA20	747/1	Ot SI		ORBITER DATA		(NGN09	n (11 19	IR <b>75</b> J
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 2690.0000 SQ.F LREF = 474.0100 IN. BREF = 936.6800 IN. SCALE = .0300	YMRP		10 IN.XO 10 IN.YO 10 IN.ZO				ELV-1B = ELEVON = BETAO = PH1 = DX =	.000 5.000 .000 7.500 10.000	ELV-OB = HACH = BETAC = DY = ALPHAC =	3.000 .600 .000 10.000 8.000
		RN/L =	3.28	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 39.000 45.000 60.000 GRADIENT	CN .21922 .24154 .27203 .31109 .37083 .40831 .39958 .00702	CA .00922 .00808 .00601 .00465 .00252 .00177 .01712 08043	CLM .02184 .02023 .01753 .01747 .01822 .01772 .04655 00058	CY .00396 .00143 00101 00265 00167 00086 .00340 00054	CBL00393003270027400242002620026200262	CYN003310033500314002170010200052 .00104 .00002	CL .21428 .23547 .26695 .30552 .36476 .40189 .39054 .00699	CD .04715 .04990 .05316 .05891 .06697 .07265 .08695	CSL 00450 00380 00324 00276 00240 00267 00191	CLN 00257 00273 00262 00172 00061 00066 .00139 00000
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .49060 .50992 .53718 .56809 .62283 .64622 .65893	CA 02654 02836 02974 02957 02969 02337 02198 00042	CLH .02643 .02258 .01958 .02110 .01939 .02702 .02547	CY0942500641009550104200950009270062900057	CBL00555604546037500372002000003900021	CYN0039600384003250021000059 .00068 .00107	CL .48245 .50164 .52842 .55937 .61157 .63269 .65437	CD .09293 .09595 .10110 .10874 .12188 .13365 .14050	CSL 00534 00533 00443 00412 00208 00021 .00046 .00025	CLN 00250 00263 00225 00114 00009 .00076 .00093

			CA20	747/1	01 S1		ORBITER DATA		(NGNO9	2) (11 MA	R 75 1
	REFERENCE	DATA						F	'ARAMETRIC	DATA	
LREF =	690.0080 SQ.F 474.8160 IN. 936.6900 IN. .0300	t. XHRP YMRP ZMRP		02 IN.XO 10 IN.YO 10 IN.ZO				ELV-1B = ELEVON = EETAD = PHI = OX =	.000 5.000 .000 7.500	ELV-08 = MACH = BETAC = DY = ALPHAC =	3.000 .600 5.000 10.000 4.000
			RN/L =	3.38	GRADIENT I	NTERVAL =	.00/ 12.60				
ALPHAO =	10.000 DZ .000 3.000 7.600 15.000 50.000 45.000 60.000	CN .35737 .39272 .39835 .42244 .49165 .47459 .50044 .80468	CA .00433 .00221 .00121 00124 00274 00372 00439 00040	CLM .08962 .05560 .04508 .03373 .02414 .01633 .00555 00320	CY .08508 .00427 .00393 .00209 .00140 .00157 .00133 00016	00909 00730 00545 00355 00294 00216	CYN 00549 00512 00413 00269 00069 .00009 .00005 .00031	CL .36103 .37652 .39210 .41623 .44546 .46802 .49360 .00409	CD .06906 .06963 .07037 .07213 .07576 .07674 .08259	CSL 01262 00984 00791 00564 00371 00269 00202	CLN 00435 00346 00260 00170 00004 .00059 .00102 .00020
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 GRADIENT	CN .64149 .65085 .65287 .67890 .69735 .70718 .71518	CA 01672 01995 02214 02235 01965 01767 01626 00070	CLH .08318 .06741 .05023 .03621 .02577 .02161 .01734	CY .00117 .00008 ~.00081 ~.00102 .00099 .00225 .00399	00733 00432 00256 00254 00275 00278	CYN 00274 00178 00097 00026 .00024 .00057 .00094	CL .62647 .63535 .64853 .65414 .69139 .69045 .69787	CO .13897 .13809 .13699 .14655 .14554 .15394 .15724	CSL 01081 00755 00443 00255 00250 00263 00247	CLN 09013 .00005 .00010 .00037 .00067 .00122 .00159

,

60.000

GRADIENT

.70660

.00524

-.01873

-.C011E

.02073

-.00485

-.00439

-.00023

-.00284

.00077

TABULATED SOURCE DATA - CA20 PAGE 697 CA20 747/1 01 51 ORBITER DATA (NGN093) ( 11 MAR 75 ) REFERENCE DATA PARAMETRIC DATA 1109.0000 IN.XO ELV-IB . 3.000 - 2690.0000 SQ.FT. XHRP .000 ELV-08 = LREF 474.8100 IN. YHRP .0000 IN.YO ELEVON = 5.000 MACH .600 ZHRP 375.0000 IN.ZO BETAD -BREF = 936.6800 IN. .000 BETAC = 5.003 PHI 7.500 SCALE = .0300 DY 10.000 DX 10.000 ALPHAC = 4.000 RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00 ALPHAO - 10.000 CBL DZ CN CA CLM CY CYN CL CD CSL CLN .000 .36231 .00245 .05253 .00086 -.01050 -.00630 .35639 .06532 -.01143 -.08438 3.000 .37865 .000tB .04113 -.00018 →.00857 -.08527 .37286 .06593 -.00936 -.00370 .39579 -.00130 .03361 -.00129 -.00698 -.00429 .39000 .05745 -.00762 -.00301 7.500 15.080 .41774 -.00169 .02739 -.00265 -.00522 -.00292 .41169 .07029 -.00555 -.00197 30.000 .44905 -.00292 .02152 -.00308 -.00364 -.00110 .44274 .07510 -.00377 -.00845 45.000 .01636 -.00205 -.00322 -.08852 .07751 .47156 -.00444 .46517 -.00326 .00005 -.00714 -.00316 -.00016 .48703 60.000 .49328 .01085 -.08081 .07853 -.00314 .00033 GRADIENT .00441 -.00049 -.00246 -.00028 .00046 .00026 .00443 .00029 .08050 .00018 RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000 CBL DŻ CN CA CLH ÇY CYN CL CD CSL CLN -.01073 .080 .59852 -.01794 .08283 -.01025 -.01022 -.00337 .58508 .12739 -.008E0 3.000 .61553 -.02253 .05340 -.01066 -.00587 -.80290 .60269 .12705 -.00737 -.00115 -.02675 .04586 -.01194 -.00432 -.00217 .12840 -.00472 -.00108 7.500 .63802 .62554 15.000 -.02855 .03057 -.01285 -.00169 -.00114 .65088 .13276 -.00211 -.00065 .66367 30.000 .68869 -.02469 .02156 -.00956 -.00171 -.00124 .67420 .14265 -.00195 -.00073 45.000 .69796 -.02033 .02084 -.00764 -.00237 -.00120 .69215 .14912 -.00259 -.00059

-.00894

.00016

.69014

.00537

.15277

.00015

-.00253

.00078

-.00022

-.00003

											.OL 035
			CA20	747/1	01 51		ORSITER DATA	A	CNSNBS	34) (11)	IAR 75 1
	REFER	ENCE DATA							PARAMETRIC	DATA	
SREF =	2690.0000	CO ET 1000									
LREF =	474.B100			000 IN.XO				ELV-IB =	.000	ELV-08 =	3.088
BREF =	936.6900			000 IN.YO				ELEVON -	5.000	HACH =	.600
SCALE =	.0380	IN. ZMRP	= 375.01	009 IN.ZO				EETAO =	.000	BETAC =	5.000
	.0350.							PHI =	7.500	DY =	10.000
								ĐX ■	.000	ALPHAC =	8.000
			RN/L =	3.26	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	CH	CA	CLM	CY	CBL	CYN	CL	co	CSL	CLN
	.090	.22636	.00856	.05354	.01027	01177	00678	.22143	.04774	01277	00463
	3.080	.24953	. 0ŭ /59	.04593	.08871	08925	00577	.24442	.05080	01011	80488
	7.500	.28972	.00551	.03916	.00653	00707	08447	.27532	.05516	00774	60317
	15.000	.32328	.00478	.03239	.00305	+.00500	+.00284	.31755	.05082	00542	00317
	30.000	.38433	.69249	.02544	.00192	~.03355	00091	.37806	.06919	00375	00028
	45.000	.42458	.00042	.01900	.00148	00323	00017	.41806	.07414	00375	.00039
	60.600	.46296	00161	.01391	.00143	00297	.00040	- 5621	.07830	00285	.00035
	GRADIENT	.00722	00027	00188	08050	.00062	.00031	.00716	.00059	.00068	-00031
			ENVL =	3.28	GRADIENT IN	TERVAL =	.00/ 12.00				
ALFHAO =	14.080										
	ÐZ	CN	CA	CLM	CY	CBL	CYN	CL	CD	CSL	C1 11
	.000	.58479	- 02857	.07641	.01027	01246	08477	.49477	.10216	01324	CLN
	3.000	.52889	02255	.05513	.00671	00895	00310	.51873	.10558		00161
	7.500	.55579	02402	.04305	.00286	00578	60144	.54509	.11115	00543	800E4
	15.000	.59071	02503	.03523	00001	00413	00010	.57922	.11662	00555	.00001
	30.000	.63868	02408	.02757	00120	00166	.00138	.62554	.13115	00403	.00090
	45.000	.ES659	02189	.02448	08085	0010B	.00201	.65289		00127	.00174
	60.000	.65481	01935	.02224	.00176	00123	.00200	.65915	.14002	00057	.00221
	GRADIENT	.00674	600914	00357	00099	.00025	.08044	.08664	.14689	00071	.00224
					- 00000	.00000	. 00074	.00004	.00120	.00095	.00021



GRADIENT

.00804

-.00094

TABULATED SOURCE DATA - CA20

CRBITER DATA (NGN095) ( 11 HAR 75 ) CA20 747/1 01 51 PARAMETRIC DATA REFL.INCE DATA ELV-19 -ELV-08 = 3.000 .000 SREF = 2690.0000 SQ.FT. XHRP 1109.0000 IN.XO .600 ELEVON -5.888 HACH YHRP = .0000 IN.YO 474.8100 IN. PETAO = .000 PETAC -5.000 ZHRP = 375.0000 IN.ZO BREF = 936.6800 IN. PH1 7.500 DY 10.000 SCALE = .0300 DX 10.000 ALPHAC = B.000 GRADIENT INTERVAL = .00/ 12.00 3.26 ALPHAO = 10.000 CSL CLN CYN CD CN CA CLH CY CBL CL DZ -.00596 .21879 .04592 -.C103B -.00422 .03191 .00376 -.00949 .22343 .00713 .000 -.00915 -.00376 -.00737 -.00511 .23994 .84845 .00607 .02674 .00230 3.000 .24461 -.00624 -.00343 .00000 -.00555 -.00446 .27006 .05258 .27509 .00488 .02248 7.500 -.00239 .05261 -.00467 -.00241 -.00419 -.60319 .30737 .00434 .02117 15.000 .31288 .06700 -.00353 -.00105 .00173 .01822 -.00252 -.00330 -.00165 .37001 30.000 .37603 .07228 -.00315 -.00033 -.00224 -.00364 -.00087 .41069 45.080 .41701 -.00013 .01607 .07828 -.00170 .001E3 .44635 .00078 .01942 .00054 -.00200 .00155 .43543 60.080 -.00030 -.00123 -.00050 .00052 05000. .00693 .00090 .00054 .00010 GRADIENT .00688 RN/L = 3.25 GRADIENT INTERVAL -.00/ 12.00 ALPHAO = 14.000 CBL CYN CL CD CSL CLN CLH CY DΖ CN CA .09265 -.0!349 -.00338 -.00554 .46570 -.02276 .05440 -.00026 -.01227 .900 .47428 -.00305 -.01022 -.02993 .03313 -.00360 -.00918 -.90543 .50222 .05437 3.800 .51013 -.00451 .52748 .10024 -.00827 -.00259 -.00592 -.00740 .53606 -.03035 .02804 7.500 -.00107 .55795 .10893 -.00534 -.08590 -.00257 15.000 .57744 -.03171 .01972 -.00981 -.00025 -.03268 .01339 -.01134 -.00229 -.00083 .62141 .12105 -.00243 30.000 .63224 -.00076 .00023 .64274 .1319+ -.00068 .08841 -.02747 .02039 -.01094 .65557 45.000 .65813 .14017 58000. .000090 .00102 .67249 -.02321 .02384 -.00925 BE000. 60.000

-.00333

-.08074

.00026

.00063

.00803

.00103

.00069

.00010

			CARD	747/1	Ot 51		ORBITER DATA		ENGNOS	96) (11 H	AR 75 )
REFERÊNCE DATA									PARAMETRIC	DATA	
SREF = LREF = BREF = SCALE >	2690.0800 SC 474.81CD IN 935.6800 IN .0300	v. YHRP	00	09 IN.XO 08 IN.YO 00 IN.ZO				ELV-IB = ELEVON = EETAD = PHI = OX =	.000 5.000 -5.080 7.500	ELV-08 = MACH = ESTAC = DY = ALPHAC =	3.080 .600 -5.000 10.000 4.809
			RN/L ·	3.28	GRADIENT	INTERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 69.000 GRADIENT	CN .44825 .46119 .47411 .49336 .52171 .54045 .56177 .80340	CA 00978 01117 01201 01460 01577 01650 01836 00052	CLM .02096 .01150 .00597 .00064 00505 01978 01995	CY .044E .0447 .0468 .0480 .0518 .0524 .0518 .0008	00000.00000.00000.00000.00000.00000.0000	CYN .01639 .01554 .01539 .01531 .01581 .01582 .01582 .0162800013	CL .44296 .45812 .46913 .46341 .51652 .53510 .55543 .00344	CD .05919 .05909 .05971 .07129 .07507 .07760 .07947 .0000B	29. .00450 .00361 .00318 .00265 .00261 .0029 .00193	CLN .01595 .01595 .01508 .01504 .01539 .01665 .01619
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 GB.000 GRADIENT	CN .70490 .71086 .71729 .72702 .74774 .76291 .77224	CA0173201935021670228402317022950233600066	CLH .64116 .03119 .02144 .01491 .00611 00877 00672	CY .0483 .0490 .0501 .0521 .0563 .0576 .0591	500123 400255 100376 000403 600559	CYN .01630 .01511 .01489 .01408 .01420 .01455 .0151000026	CL .69915 .69950 .70129 .71095 .73114 .74570 .75496 .60173	CD .15373 .15291 .15231 .15372 .15842 .16227 .16415	CSL .00389 .00246 .00097 00024 00186 00187 00177	CLN .01593 .01495 .01448 .01457 .01454 .01545 .01600

DATE 04 059 75

TABULATED SOURCE DATA - CARO

										• •	- FUI
			CAPO	747/1	01 51		ORBITER DATA	A	(NGNDS	97) (11 H	AR 75 )
	REFEREN	CE DATA							PARAHETRIC	DATA	
	2690.0000 50		= 1169.0	880 IN.XO				ELV-IB =	.000	ELV-09 =	3.000
LREF =	474.8100 IN	I, YMRP	0	000 IN.YO				ELEVON =	5.000	MACH =	.600
eref =	936.6BCO IN	, ZHRP	<b>=</b> 375.0	000 IN.ZO				PHI =	7.500	BETAO =	-5.000
SCALE *	.0300							BETAC =	-5.000	DY .	10.000
								DX =	.000	ALPHAC =	8.000
			RN/L =	3.25	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	02	CN	CA	CLH	CA	COL	CYN	CL	CD	CSL	CLN
	.000	.29252	00088	.01182	.04898	00303	.01656	.28823	.04993	09011	.01684
	3.000	.31971	00302	-00928	.04566	00359	.01646	.31538	.05255	00069	.01693
	7.500	.35195	00491	-00676	.04542	00401	.01581	.34746	.05628	00120	.01627
	15.000	.39324	00701	.00472	.04655	00359	.01550	.38849	.05138	00083	.01599
	30.000	.45570	~.01027	00071	.04940	00241	.01621	.45056	.05902	.00844	.01639
	45.000	.49346	01197	00589	.05187	00189	.01602	.48884	.07390	-00092	.01610
	60.000	.53197	01289	01124	.05880	00063	.01318	.52613	.07958	.00167	-01308
	GRADIENT	.00787	00053	00067	80044	00013	00010	.00784	.00084	00014	00808
			RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL.	CLN
	.000	.56650	02332	.04363	.04965	.00115	.01642	.55532	.11443	.00509	.01585
	3.000	.59600	02429	.03803.	.04997	.00065	.01503	.57447	.11650	.00426	.01442
	7.500	.60908	02525	.03288	.04852	.00019	.01492	59709	.12285	.00379	.01443
	15.080	.64226	02519	-02669	.04936	00107	.01477	.62928	.13094	.00254	.01459
	30.000	.68423	02135	.01669	.05572	00556	.01387	.65907	14482	00204	.01480
	45.000	.71857	02180	.00760	.05702	00595	.01419	.70259	.15271	00234	.01521
	60.000	.74047	02215	00043	.05989	00803	.01450	.72393	. 15765	00234	.01553
	GRADIENT	.00583	00025	00141	00016	00013	00019	.00553	.00112	00017	00015

			CA20	747/1	01 51		ORBITER DATA		INGNOS	99) (IIH	AR 75 )
	REFER	ENCE DATA							PARAHETRIC	ATAG :	
SREF = LREF = BREF = SCALE =	2690.0800 ( 474.8100 936.6800 .0300	IN. YHRP	<b>.</b> 0	000 IN.XO 000 IN.YO 000 IN.ZO				ELV-18 = ELEVON = PH! = BETAC = DX =	.009 5.000 7.500 .000	ELV-08 =  MACH =  HETAO =  DY =  ALPHAC =	3.000 .680 -5.600 10.000 4.000
			RN/L =	3.29	GRADIENT	INTERVAL =	.80/ 12.00				
ALPHAO =	10.080 DZ .000 3.080 7.508 15.000 30.000 45.000 GRADIENT	CN . 45340 . 45453 . 47750 . 49544 . 52357 . 54093 . 55471 . 00324	CA 01368 01504 01541 01646 01662 01602 01481 00022	CLM .02121 .01327 .00550 .00122 00498 01020 01545 00193	CY .0520 .0508 .0509 .0489 .0524 .0535 .0543 ~.00016	100245 900204 200157 000090 300089 700107	CYN .01307 .01356 .01357 .01459 .01455 .01537 .00005	CL .44939 .46008 .47331 .49077 .51843 .53549 .54686 .00323	CD .06526 .06585 .06781 .06983 .07494 .07816 .68179 .00035	CSL 00322 00006 .00034 .00100 .00165 .00172 .00161 .00009	CLN .01333 .01378 .01372 .01473 .01469 .01633 .00005
ALPHAO =	14.000 9Z .000 3.000 7.500 15.000 95.000 60.000 GRADIENT	CN .71829 .72076 .72460 .73310 .75085 .76472 .77287	CA 02370 02529 02609 02515 02376 02301 02238 00031	CLM .03949 .03027 .02143 .01469 .00619 00666 00559	CY .05499 .05456 .05359 .05643 .05753 .05899	00414 00422 00462 00521 00557	CYN .01298 .01291 .01287 .01357 .01365 .01415 .01465	CL .70269 .70546 .70938 .71741 .73429 .74757 .75513	CD .15077 .14983 .14983 .15855 .15859 .16268 .16521	CSL 00092 00098 00120 00171 00198 00201 00001	C:N .01351 .01353 .01351 .01429 .01470 .01508 .01552

LTE	Λu	DEC	75	T	LE

GRADIENT

## LBULATED SOURCE DATA - CA20

CA20 747/1 Ot 51

-.00205

-.00061

-.00009

.08502

PAGE 703

(NGN099)

( 11 MAR 75 )

.00000

	REFERENCE	DATA							PARAMETRIC	DATA	
LREF -	690.0000 SQ.F 474.9100 IN. 936.6800 IN. .0300	T, XHRP YHRP ZHRP	= .00	00 1N.XO 00 1N.YO 00 1N.ZO				ELV-18 = ELEVON = BETAO = PHI = DX =	.000 5.000 -5.000 7.500	ELV-08 = HACH = BETAC = BY = ALPHAC =	3.000 .600 .000 10.000 8.000
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO «	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .29793 .32418 .35394 .39435 .45348 .49289 .53190 .60740	CA 00483 00552 00675 01855 01128 01237 01190 00026	CLH .01694 .01138 .00857 .00585 .00051 00539 01142 00108	CY .05715 .05431 .05138 .04891 .05073 .05541 00076	CBL 00846 00741 00544 00520 00304 00326 00149	CYN .01349 .01388 .01432 .01499 .01610 .01621 .01516	CL .29424 .32021 .34974 .34994 .44855 .48755 .52599 .00733	CD .04698 .05085 .05481 .05005 .06763 .07341 .08065 .00103	CSL 00599 00489 00385 00282 00019 .00059 .00116 .00028	CLN .01476 .01496 .01522 .01555 .01639 .01635 .01519
ALPHAO =	14.089 DZ .080	CN .55621	CA 02611	3.27 ( CLH .05027	CY .05013	C9L 00387	.00.51 \00. NYO EES10.	CL .55571	CD .11164	<b>C</b> SL 00861	CLN .01354
	3.000 7.500 15.000 30.000 45.000	.58710 .61168 .64587 .68556 .71962	02681 02687 02660 02215 02252	.04150 .03464 .02735 .01721 .00785	.05805 .05553 .05246 .05613 .05685	80270 80192 00139 00571 00594 00615	.01321 .01347 .01428 .01376 .01432	.57615 .60002 .63312 .67055 .70369	.11602 .12191 .13044 .14436 .15224	.00057 .00139 .00211 00221 00230	.01347 .01353 .01419 .01473 .01533 .01599
	60.000	.74235	02222	.00003		.,,,,,			60170	00000	90000

ORBITER DATA

.08085

.00025

.00565

.00135

			CA20	747/1	01 51		ORBITER DATA	<b>L</b>	(NGN10	9) (11 H	UR 75 )
	REFERENCE	DATA						!	PARAMETRIC	DATA	
LREF =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	YMRP	000	05.NI 00 05.NI 00 05.NI 00				ELV-1B = ELEVON = ESTAO = PHI = OX =	.000 5.000 -5.000 7.500 .000	ELV-OB = HACH = BETAC = DY = ALPHAC =	3.800 .500 5.000 10.600 4.000
			RN/L =	3.31	GRAL, ENT	INTERVAL =	.00/ 12.00				
ALPHAO =	19.000										
	DZ	CN	CA	CLH	CY	CEL.	CYN	CL	CD	CSL	CLN
	.080	.42824	01208	.05702	.0552		.00918	.42383	.06247	00725	.00959
	3.000	.44816	01419	.03602	.0547		.00965	.44381	.06364	08479	.01066
	7.590	.47128	01448	.01644	.0549		.01069	.46664	.05759	00283	.01136
	15.000	.49426	01467	.00514	.0538		.01162	.46930	.07138	00104	.01218
	39.000	.52225	01593	00326	.0534	600166	.01341	.51707	.07510	.00070	.01350
	45.000	.54102	01593	08925	.0544	600124	.01418	.53557	.07826	.00124	.01418
	69.000	.56326	01714	01525	.0532	100102	.01597	.55767	.08093	.00177	.01590
	GRADIENT	.06569	00030	00533	0000	4 .00853	.00033	.00586	.00069	.00059	.00023
			RN/L =	3.28	GRADIENT	INTERVAL =	.60/ 12.80				
ALPHAO =	14.680										
	D2	CN	CA	CLH	CY	CEL	CYN	CL	CD	CSL	CLN
	.000	.69372	02135	.0846 <b>5</b>	.0555	500719	.01092	.67828	. 14711	00433	.01233
	3.000	.70413	02454	.06248	.0553	600655	.01108	.68910	. 14673	00369	.01234
	7.500	.71854	02598	.03759	.0556	300579	.81140	.70348	.14862	00286	.01246
	15.000	.73365	02480	.02057	.0553	900532	.01237	.71786	.15342	00217	.01329
	30.000	.75236	02393	.00811	. 0553	700539	.01385	.73577	.15889	001EB	.01475
	45.000	.76545	02307	.00009	.0555	300551	.01423	.74830	.16280	00200	.01516
					^		01505	******		00015	04600

.75695

.00335

.01506

80800.

.16496

.00022

-.00215

.00019

.01605

200002

-.02303

-.00059

.77427

.00339

60.000

GRADIENT

-.00695

-.00622

.65733

.00001

-.00597

.00018

·---

DATE 04 E	EC 75	TABUL	ATED SOURCE	DATA - C	Y50					P	AGE 705
			CVSO	747/1	01 51		ORBITER DATA	A.	CNGNIC	)13 (111	1AR 75 )
	REFER	ENCE DATA							PARAMETR (	DATA C	
	2690.0000			000 IN.XO				ETA-IB =	.000	ELV-08 =	3.000
LREF =	474.8100			088 IN.YO				EFEADM =	5.000	HACH =	.600
BREF =	935.6900	IN. ZHRP	- 375.0	008 IN.ZO				PHI =	7.500	BETAO -	-5.000
SCALE =	.0300							BETAC =	5.000	DY =	10.000
								0x -	.000	ALPHAC =	8.000
			RN/L =	3.25	GRADIENT IN	ITERVAL =	.00/ 12.00				
ALPHAO =	10.009										
	DZ	CH	CA	CLH	CY	CBL,	CYN	CL	CD	CSL	CLN
	.000	.28919	−ປ598	.04399	.0559!	01312	.08989	.28584	.04433	01134	.01123
	3.080	.31960	.00620	.02672	.05427	91072	.01096	.31592	.04939	00865	.01266
	7.500	.35318	00736	.01686	.05118	00877	.01279	.34989	.05408	00642	51419.
	15.009	.39563	00855	.00955	.05002	00665	.01377	.39110	.05028	08416	.01471
	39.009	.45610	01126	.00141	.04813	00415	.01583	.45113	.05912	00134	.01631
	45.000	.49480	01247	00464	.04954	00301	.01612	.48945	.07364	00017	.01640
	60.000	.53720	01314	00973	.05140	00217	.01602	.53132	.08034	.00054	.01615
	GRADIENT	.00845	60019	00350	00053	.00057	.00049	.00835	.00128	.00054	.00038
			RN/L =	3.27	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	14.089							•			
	DZ	CN	CA	CLM	CY	CBL	CYN	CL	CO	CSL	CLN
	.000	.55545	02478	.08256	.06172	00987	.00876	.54495	.11033	00746	.01089
	3.080	.57879	02622	.05377	.05998	09723	.01031	.55794	.11459	00452	.01175
	7.500	.60924	02696	.04532	.05701	00461	.01199	.59764	. 12133	00157	.01275
	15.000	.64705	02671	.03218	.05356	00239	.01367	-63429	.13062	.00099	.01384
	30.080	.69522	02467	.01916	.05385	00338	.81440	.68854	. 14425	.00021	.01479
•	45.000	.72491	02391	.00900	.05471	00480	.01480	.70916	.15217	00108	.01552
	69.009	.74601	02253	.00063	.05731	00577	.01462	.72930	.15862	00206	.01558
	GRADIENT	.00714	00027	00490	00063	.00069	.000+3	.00899	.88147	.00077	.00025

		CA20	747/1	01 51		ORBITER DATA		(NGN10	99 CELE	AR 75 )
REFERENCE	DATA							PARAMETRIC	DATA	
2690.0000 SQ.F 474.8100 IN. 926.6900 IN. .0300	T. XHRP YHRP ZHRP	• .00	OP.NI GO				ELV-18 = ELEVON = PHI = EETAC = DX =	.000 5.000 .000 -5.000	ELV-09 = HACH = EETAO = BY = ALPHAC =	3.080 .600 -5.080 .000 4.000
		RN/L =	3.30	GRADIENT I	INTERVAL =	.00/ 12.00				
10.000										
	CN	'EA	CLM	CY	CBL.	CYN	CL	CD	CSL	CLN
										-01989
	.37552	06754	.01372			.01959	.37114	.05769	.00524	.01897
7.500	.46022	08943	.00055	.04065		.01913	.39577	.06021	.00363	.01879
15.000	.42807	01064	08733	.04422	00899	.01864	.42342	.05335	.00226	.01853
30.000	.45488	01124	01405	.04785	00159	.01801	.45977	.06966	.00155	.01802
45.000	.48691	01120	01721	.04837	00245	.01742	.48116	.07347	.00061	.01758
€0.000	.50934	01089	02001	.04958	00372	.01669	.50346	.87793	00077	.01707
GRADIENT	.00752	00074	00466	.00085	00080	00015	.00753	.00057	00062	00004
		RN/L =	3.28	GRADIENT I	NTERVAL =	.00/ 12.00				
14.603										
ĐZ	CH	CA	CLH	CY	CEL	CYN	CL	CD	CS1_	CLN
.000	.58775	02519	.07335	.04015	.01656	.01654	.57635	. 11775	.01428	.01359
3.080	.61565	02939	.64527	.04086	.00695	.01773	.60448	.12043	.01164	.01552
7.590	.64131	03149	.02276	.04300	.00392	.01815	.62988	. 12459	.00809	.01669
15.880	.65995	02850	.01114	.04903	08097	.01661	.64627	.13176	.00308	.01635
30.000	.69343	02499	.00169	.05392	08524	.01555	.65910	.14109	00132	.01636
45.000	.70316	02413	00432	.05440	09635	.01531	.68811	. 14670	00246	.01639
69.000	.72500	02842	00760	.05052	00248	.01725	.71034	.14782	.00177	.01734
GRADIENT	.09703	00081	00661	.00039	00088	.00019	.00701	.00091	00081	.00040
	10.000 SO.F 474.8100 IN. 936.6900 IN. 0300  IN.	10.000 02 CN .0300 .37552 7.500 .42807 30.000 .57552 7.500 .42807 30.000 .45488 45.000 .4681 60.000 .50934 GRADIENT .00752  14.000 02 CN .000 .56775 3.000 .61565 7.500 .64131 15.000 .65995 30.000 .69343 45.000 .70316 60.000 .70316	REFERENCE DATA  2690.0000 SQ.FT. XMRP = 1109.00 474.8100 IN. YMRP = .00 925.6900 IN. ZMRP = 375.00  RN/L =  10.000  0Z	REFERENCE DATA  2690.0000 SO.FT. XHRP = 1109.0000 IN.XO 474.8100 IN. YHRP = .0000 IN.YO 926.6900 IN. ZHRP = 375.0000 IN.ZO .0300  RN/L = 3.30  10.000  0Z	REFERENCE DATA  2690.0000 SOLFT. XHRP = 1109.0000 IN.X0 474.8100 IN. YHRP = .0000 IN.Y0 926.6900 IN. ZHRP = 375.0000 IN.Z0 .0300  RN/L = 3.30 GRADIENT II  10.000  02	REFERENCE DATA  2690.0000 SQ.FT. XHRP = 1109.0000 IN.X0 474.8100 IN. YHRP = .0000 IN.Y0 936.6300 IN. ZHRP = 375.0000 IN.Z0 .0300  RN/L = 3.30 GRADIENT INTERVAL =  10.000  DZ CN CA CLM CY CBL .000 .3425300364 .03577 .03421 .00499 3.000 .3755200744 .01372 .03721 .00165 7.500 .4002200943 .00056 .04065 .00031 15.000 .428070105400738 .0442200099 30.000 .486810112401405 .0478600159 45.000 .486810112001721 .0483700245 60.000 .509340106802081 .0495600372 GRADIENT .007520007400466 .0005500060  ENVL = 3.28 GRADIENT INTERVAL =  14.000  DZ CN CA CLH CY CEL .800 .5877502519 .07336 .04015 .01656 3.000 .6156502939 .04527 .04086 .00695 7.500 .6413103149 .02276 .04300 .00392 15.000 .6599502630 .01114 .0490300097 30.000 .6934302499 .00169 .0532200524 45.000 .703160241300492 .0544000635 60.000 .725000264200760 .0505200248	REFERENCE DATA  REFERENCE DATA  REPERENCE DATA  REPO.0000 SO.FT. XHRP = 1109.0000 IN.X0 474,8100 IN. YHRP = .0000 IN.Y0 936.6300 IN. ZHRP = 375.0000 IN.Z0 .0300  RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00  10.000  02 CN CA CLH CY CBL CYN .0227 3.000 .37552 .06764 .01372 .03721 .00149 .01295 7.500 .46022 .00943 .00066 .04065 .00031 .01913 15.000 .46022 .00943 .00066 .04065 .00031 .01913 15.000 .48007 .01064 .00733 .04422 .00099 .01664 30.000 .48480 .01124 .01405 .04786 .00159 .01801 45.000 .48681 .01120 .01721 .04837 .00245 .01742 60.000 .5934 .01069 .02881 .04956 .00372 .01669 GRADIENT .00752 .00074 .00465 .00065 .00060 .00015  RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00  14.000  02 CN CA CLH CY CEL CYN .000 .59775 .02519 .07336 .04015 .01656 .01654 3.000 .69343 .02999 .04527 .04086 .00695 .01773 7.500 .64131 .03149 .02276 .04300 .00392 .01815 15.000 .65956 .02630 .01114 .04903 .00097 .01661 30.000 .69343 .02499 .00169 .05322 .00548 .01555 45.000 .70316 .02413 .00432 .05440 .00635 .01551 45.000 .70316 .02413 .00432 .05440 .00635 .01551 45.000 .70316 .02413 .00432 .05440 .00635 .01551	REFERENCE CATA  REFERENCE CATA  RESPONDED SOLFT. MAPP = 1109.0000 IN.X0   ELV-IB = E	REFERENCE DATA  REPORT OF THE PATABOLINA PARAMETRIC   REFERENCE CATA  RESPONDED SOLFT. XHRP = 1109.0000 IN.X0	

-

Menya nyanga da

DATE 04 DEC 75

TABULATED SOURCE DATA - CA20

.69755

.00951

60.000

GRADIENT

-.02914

-.00090

-.00348

-.00392

PAGE 707 . (NGN105) ( 11 HAR 75 ) ORBITER DATA CVSO 747/1 01 51 PARAMETRIC DATA REFERENCE DATA ELV-18 = ELY-08 = 3.000 1109.0000 IH.XO .000 XHRP = 2690.0000 SQ.FT. ELEVON = 5.000 MACH .600 LREF 474,8100 IN. YHPP .0000 IN.YO PH1 .000 BETAO = -5.000 936.6800 IN. ZHRP 375.0000 IN.ZO BREF = .000 BETAC -5.000 DY .0300 SCALE = ÐΧ 10.000 ALPHAC = B.000 3.26 GRADIENT INTERVAL . .00/ 12.00 RN/L = ALPHAO = 10.000 CBL CYN CL CD CSL CLN CLH CY DΖ CH CA .00355 .01917 .22115 .04046 .000 .22482 .00146 -.00253 .02764 .00017 .01950 -.00785 .03213 -.00198 .01952 .24922 .04344 .00144 .01957 .25297 -.00050 3.000 -.00307 .01893 .27612 .04614 .00027 .01917 -.08940 .03804 7.500 .27994 ~.00251 .01912 15.809 .32550 -.00396 -.01260 .04253 -.00439 .01854 .32125 .05263 -.00109 -.00646 -.01374 .04746 -.00423 .01830 .39423 .06119 -.00099 .01876 30.000 .38902 -.01579 .04920 -.00467 .01727 .42727 .0675B -.00160 .01782 -.00764 45.000 .43251 .47828 .07497 -.00177 .01697 -.01721 .05216 -.00469 .01640 60.000 .48403 -.00923 .00074 -.00042 -.00001 -.00042 -.00008 .00722 GRADIENT .00724 -.00052 -.00087 .00139 3.32 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAO = 14.000 CBL CYN · CL CD CSL CLN CY ĐΖ CN ÇA CLH .08769 .01336 .01774 .42848 -.01858 .05093 .02574 .00869 .02845 .000 .43696 .01828 -.02200 .02560 .03036 .00553 .02014 .47219 .09506 .01024 3.000 .48116 .50109 .09946 .00856 .01759 .03572 .00405 .01914 7.500 .51026 -.02472 .01984 .54638 .10E40 .00704 .01762 .00257 .01680 15.000 .55537 -.02780 .01246 .04189 .01762 -.02900 .00500 .04685 .00100 .01841 .60932 .12179 .00542 .61971 30.000 .00005 .01765 .64777 .13171 .00437 .01730 -.02891 .00019 .04822 45.000 .65039

-.00097

-.00059

.04930

.00146

.01791

-.00018

.13906

.00152

.67417

.00942

.00339

-.00062

.01751

-.00003

				_						•	ADE 703
			CVS	0 747/1	01 SI		ORBITER DA	TA	INGN	106) ( 11	MAR 75 1
		ENCE DATA							PARAHETR	IC DATA	
SREF = LREF = BREF = SCALE =	2690,0000 ( 474,8100 ( 936,6900 ( .0300	IN. YHRP		0000 IN.XO 0000 IN.YO 0000 IN.ZO				ELV-18 = ELEVON = EETAO = PHI = DX =	.000 5.000 -5.000	ELV-08 = haCH = EETAC = DY =	3.000 -5.000 10.000
		RUN NO	. 0/0	RN/L =	3.31 GR	WDIENT INTE	RVAL .	00/ 12.00	.000	ALPHAC =	4.000
ALPHA(	D DZ	CN	CA	CLH	CY	CBL					
10.000	.000	.43533	00282	.03355	.04380		CYN	CL	CD	CSL	CLN
10.000	3.000	.45898	00501	.01055		00358	.01625	.48920	.07281	08070	.01652
10.000	7.500	.46571	08652	.08526	.04259	00352	.01608	.45288	.07476	000EB	.01545
10.000	15.000	48253	00787		.04324	00384	.01586	.46077	.07452	00103	.01628
10.000	30.000	.50372	00874	00093	.04459	00394	.01599	-47656	07604	00111	.01643
10.000	45.000	.51691		00613	.04747	00369	.01642	.49758	.07897	00070	
10.000	60.000	.53520	00926	01099	.04925	00348	.01652	.51264	.08098	00055	.01679
.0.000	GRADIENT		00992	01541	.05110	09328	.01665	.52879	.08317	00034	.01687
	CHADIENI	.00399	08049	00357	00006	00004	00005	.00402	.00021		.01697
•							********	.00.02	.00821	00005	00004
	referen	ICE DATA	CAED	747/1	01 St	c	RBITER DATA	i.	(NGN) (	171 tim	AR 75 J
								1	PARAMETRIC	DATA	
SREF = E LREF = GREF = SCALE =	2690.0000 S0 474.8100 IN 936.6800 IN .0300	. YHRP	68	00.NI 08 00.NI 08 00.NI 00				ELV-18 = ELEVON = PHI = EETAC = OX =	.000 5.000 .000 -5.000	ELV-0B = MACH = EETAO = DY = ALPHAC =	3.000 .600 -5.000 10.000 4.000
			RN/L =	3.27 G	RADIENT IN1	FRVA) =	.00/ 12.00				
ALPHAO =	10.000						, 15.03				
NATIO =	10.000 DZ										
		CN	CA	CLM	CY	CBL	CYN	CL	CD		
	.000		00296	.02191	.04235	00298	.01624	.36858		CSL	CLN
	3.030		~.00607	.00231	.04113	00364	.01638		.05199	00012	.01651
	7.500	.91456	COB12	00262	.04260	88418		.39532	.06355	00074	.01676
	15.000	.43632	00993	00778	.04430	08450	.01631	.40967	.08399	00129	01679
	30.080		01141	01121	-04726	00406	.01627	.43141	.06599	00161	.01620
	45.000		- 01216	01466	.84866	00388	.01668	.45990	.06949	00110	.01712
	60.000		01293	01780	-05030	00372	.01666	-47901	.07212	00093	.01703
	GRADIENT		00057	00311	.00005	_	01655	.50842	-07511	00077	.01709
				- 00014	*00000	00016	.00001	.00530	.00025	00015	.00003

**GRADIENT** 

.00714

-.00044

~.00022

.00002

-.00008

-.08897

.00711

.00000

-.00009

-.00005

## TABULATED SOURCE DATA + CA20

PAGE 709 CA20 747/1 OI SI ORBITER DATA (NGN107) ( 11 MAR 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 2690,0000 SQ.FT. XHRP = 1109.0000 IN.XO ELV-IB = .000 ELV-OB = 3.000 LREF - 474.8100 IN. YHRP .0000 IN.YO ELEYON # 5.000 HACH = -600 BREF - 936.6800 IN. ZHRP 375.0000 IN.ZO PHI .000 BETAD = -5.000 SCALE = .0300 BETAC = -5.000 DΥ 10.000 DX 10.000 ALPHAC = 4.000 RN/L = GRADIENT INTERVAL = 3.25 .00/ 12.00 ALPHAO = 14.000 ĐΖ CN CA CLH CY CBL CYN CL CD CSL CLN -.02085 .06059 .03796 .00112 .000 .59968 .01945 .58692 .12484 .00579 .01860 3.000 .62503 -.02552 .03670 .03947 .00059 .01800 .61263 .12645 .08493 .01732 7.500 .64757 -.02955 .01719 .64178 -.00005 .01662 .63548 .12799 .00397 .01614 -.03011 15.000 .66335 .01127 .04430 -.00124 .01643 .65093 .13126 .00277 .01624 30.000 .69024 -.02934 .00390 .04820 -.0023B .01651 .67693 .13852 .00169 .01659 45.000 .70921 -.02900 -.00097 .04999 -.00297 .01659 .69516 .14344 .00113 .01681 60.000 .72340 -.02953 -.00544 .05099 -.00249 .01720 .78996 .14635 .00174 .01730 GRADIENT .00628 -.00114 -.00567 .00051 -.00016 -.00037 .00637 .00641 -.00024 -.00032 CAZO 747/1 01 SI ORBITER DATA (MSN108) ( 11 HAR 75 ) REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SQ.FT. XHRP = 1109.0000 IN.XO ELV-IB = .080 ELV-03 = 3,000 LREF = 474.8100 IN. YHRP \* .0000 IN.YO ELEVON = 5.000 MACH .600 936.6880 IN. 375.0000 IN.ZO BREF \* ZHRP = PH1 .000 EETAD = -5.000 SCALE -.0300 PETAC = -5.000 DY 10.000 DX 10.000 ALPHAC = 8.GCO RN/L = 3.24 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000 ĐΖ CH CLM CY CBL CYN CL CD CSL CLN -.00763 -.00847 .000 .23605 .00186 .04338 .01549 .23214 .04282 -.03565 .01673 .26359 .01532 3.000 .00018 -.01084 .04256 -.00900 .25955 .01655 .04595 -.00621 7.500 .29034 -.00151 -.0096t .04344 -:00959 .01499 .28620 .04893 -.00535 .01634 15.000 .33335 -.00351 -.80976 .04427 -.00878 .01535 .32889 .05443 -.00598 .01E54 -.00575 30.000 .39383 -.00933 .04753 +.00726 .01596 .38834 .05273 -.00439 .01683 45.000 .43714 -.00707 -.01098 .04948 -.00517 .43173 .01601 .06855 -.00329 .01684 60.000 .48536 -.00857 -.01163 .05207 +.00486 .01624 .47948 .07564 -.00195 .01ES¥

			CVSO	747/1	01 51	1	ORBITER DATA	1	CHONIC	8) (11 M	R 75 )
	REFERENCE	DATA						!	PARAHETRIC	DATA	
SREF = 6 LREF = BREF = SCALE =	2690.0000 50.F 474.8100 IN. 936.6800 IN. .0300	T. XHRP YHRP ZHRP	08	00 IN.XO 00 IN.YO 00 IN.ZO		·		ELV-IB = ELEVON = PHI = ESTAC = OX =	.000 5.000 .000 -5.000 10.000	ELV-OB = HACH = BETAO = DY = ALPHAC =	3.000 .600 -5.000 10.000 8.000
			RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO ⇒	14.080 DZ .080 3.000 7.508 15.000 20.000 45.000 60.000 GRADIENT	CH .47029 .50220 .52833 .55723 .62513 .65485 .69385	CA 01584 02204 02452 02546 02609 02855 02879 00072	CLH .03438 .02046 .01733 .01419 .01605 .00484 00058	CY .04317 .04334 .04306 .04405 .04712 .04887 .05041	CBL 00377 00364 00372 00322 00246 00197 00181	CYN .01680 .01517 .01511 .01571 .01698 .01692 .01728	CL .46093 .49262 .51657 .535679 .61336 .69201 .69020	CD .09530 .10010 .10402 .11155 .12398 .13314 .13993	CSL .00021 .00014 .00019 .00069 .00160 .00216 .00243	CLN .01644 .01560 .01565 .01603 .01659 .01665 .01721
			CAZO	747/1	01 S1		ORBITER DATA		(NGN10	9) (II N	IR 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 8 LREF = BREF = SCALE =	2699.0000 SQ.F 1974.8100 IN. 1925.6890 IN. 10300	T. XHEP YHEP ZMOP	GD	00 IN.XO 80 IN.YO 80 IN.ZO				ELV-IB = ELEVON = PHI = BETAC = DX =	.008 5.000 .000 .000	ELV-0B = MACH = BETAO = DY = ALPHAC =	3.000 .500 -5.000 .000 4.000
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAD ≠	10.007 OZ .000 3.000 7.500 15.000 20.000 45.000	CN .36706 .30921 .90966 .93173 .96592 .98791	CA 00610 00668 00997 01073 01132 01150	CLM .02284 .00590 00851 01431 01699	CY .04647 .04593 .04662 .04691 .04798 .84788	CBL 00428 00456 00458 00436 00334 00324	CYN .01830 .01800 .01711 .01707 .01721	CL .35255 .38480 .40418 .42704 .46179 .46249	CD .05773 .05904 .05114 .05940 .05994	CSL 00104 00136 00154 00133 00020	CLN .01877 .01852 .01764 .01755 .01753

PAGE 711 **DATE 04 DEC 75** TABULATED SOURCE DATA - CA20 747/1 01 51 ORBITER DATA (NGN109) ( 11 MAR 75 ) PARAMETRIC DATA REFERENCE DATA 2690.0000 SQ.FT. XHRP = 1109.0000 IN.XO ELV-18 = -000 ELV-08 = 3,000 SREF = YMRP . .0000 IN.YO ELEVON = 5.000 MACH = .600 LREF \* 474.8100 IN. -5.000 BREF = 936.6800 IN. ZMRP = 375.0000 IN.ZO PHI .000 EETAO -.000 SCALE = .0380 = DATES .000 DY ĐΧ 10.000 ALPHAC = 4.000 3.28 GRADIENT INTERVAL = RN/L = .00/ 12.00 ALPHAO = 14.000CBL DZ CN ÇA CLH CY CYN CL CD CSL CLN .000 -.02624 .06268 .04538 .00064 .01849 .59115 .12035 .08516 .01779 .60271 .62159 -.03054 .04274 .04563 .00028 .01809 .61052 .12074 .00464 .01749 3.000 -.03278 .02210 .04663 -.00005 .01742 .63428 .12435 .00416 .01691 7.500 .64553 -.03209 .00981 .04781 -.00059 .01703 .65645 .13060 .00356 .01656 15.000 .66855 39.000 .69743 -.02662 .00128 .05247 -.00504 .01546 .67345 .14048 -.00115 .01622 -.00212 45.000 -.02523 -.00398 .05276 -.00501.01534 .69063 .14619 .01634 .70549 -.00729 -.00233 .01722 .01727 60.080 .72601 -.02913 .04932 .71149 .14738 .00190 GRADIENT .00569 -.00084 -.00535 .00017 -.00009 -.00014 .00571 .00056 -.00012 -.08012 CYSO 747/1 01 51 ORBITER DATA (NGN110) ( 11 HAR 75 ) REFERENCE DATA PARAMETRIC DATA ELV-18 = 3.000 SREF = 2690.0000 SQ.FT. XMRP # 1109.0800 IN.XO .000 ELV-09 = LREF = 474.8100 IN. YHEP .0000 IN.YO ELEVON = 5.000 MACH .600 BREF = 936.6900 IN. ZMRP \* 375.0000 IN.ZO PHI .000 EETAO = -5.000 BETAC = .009 .000 BY SCALE = .0300 ĐΧ 10.000 ALFHAC = 8.000 GRADIENT INTERVAL . .00/ 12.00 RN/L = 3.28 ALPHAO = 10.000 ĐΖ CN CA CLH CY CBL CYN CL CD C5L CLN .00048 -.00556 .04898 -.00970 .01865 .22810 .84071 -.00533 .01928 .000 .23171 3.000 .25688 -.00128 -.00937 .04755 -.00B75 .01797 .25320 .04335 -.00550 .01921 -.00282 -.00888 .04664 -.00850 .01757 .27823 .04620 -.00532 .01877 7.500 .28203 .32276 .01227 15.009 .32695 -.00447 -.01107 .04652 -.00771 .01720 .05237 -.00461 -.01223 .04851 .01723 .38547 -.00299 .01802 30.880 .39030 -.00632 -.00605 .08155 -.00741 45.000 .43316 -.01482 .04931 -.00511 .01683 .42787 .06792 -.00214 .01727 .05858 -.00954 -.01672 -.00379 .01628 .47783 .07548 -.00091 .01659

-.00030

.00003

-.00014

.00550

.00072

.00000

-.00014

60.000

GRADIENT

.48358

.00562

-.00043

-.00040

			CASE	747/1	01 SI		ORBITER DAT	A	(NGN)	10) []]	IAR 75 )
	REFERENC	E DATA							5.5		
									PARAMETRI	C DATA	
SREF =	2690.6000 SQ.			000 IN.X0				ELV-18 =	.000	ELV-09 =	3.000
EREF =	936.6800 IN.			000 IN.YO				ELEVON .	5.000	MACH =	.600
SCALE =	.0300	279(1)	= 375.0	889 IN.ZO	1			FHI •	-080	BETAO =	~5.000
CONSC -	40204							BETAC -	.000	DY .	.000
								DX ==	10.000	ALPHAC .	8.600
			RN/L =	3.29							
			14072 -	2.63	GRADIENT IN	SIEHVAL =	.00/ 12.00				
ALFHAO	- 14.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	C1.			
	.000	.45864	02044	.03799	.04923	00223	.01832	.44896	CD	CSL	CLN
	3.000	.47662	02242	.02557	64697	00213	.01839	.46789	.09112	.00227	.01831
	7.588	.52111	02569	.01690	04735	00178	.01738		.09355	-06538	.01826
	15.000	.55728	02704	.01295	04699	00140	.01755	.51185	.10114	.00248	.01730
	30.000	.62096	02874	.00703	.04848	00071	.01754	.54727	.10858	.00289	.01737
	45.000	.56059	02890	.00136	.04839	08072	.01751	.6094 <b>7</b>	.12234	.00355	.01719
	60.000	.69760	02896	00278	.04928	00131	.01759	64795	.13177	.00353	.01717
	GRADIENT	.60845	00070	00274	00022	.80006	00013	-67416	.13834	.00299	.01737
					100022	.00000	~.00013	.0883	.00135	.000D3	00014
			CAEB	747/1	01 SI	ē	ORBITER DATA		(NGNL1	I) (); w	R 75 )
	REFERENCE	DATA									
	The Lateston	PAIA						1	PARAMETRIC	DATA	
SREF =	2690.0000 SQ.F	T. XMRP	- 1109.00	00 IN.XO				6.0.10			
LREF =	474.8109 IN.	YMRP		00 IN.YO				ELV-18 =	-000	ELV-09 =	3.000
6REF ≠	923.6900 IN.	ZHRP		00 IN.ZO				ELEVON =	5.000	MACH =	.600
SCALE =	.0300							EETAO =	-5.000	PETAC =	-000
								PHI =	.000	DY =	10.000
		•						0X =	.000	ALPHAC =	4.000
		RUN NO.	0/0	RN/L =	3.33 GRA	DIENT INTER	WAL = .00	0/ 12.00			
ALPHAO	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD.		
10.000	.000	.44360	00756	.02735	.04576	00820	.01474	.44310	CD	CEL	CLN
10.000	3.000	.48169	00900	.01253	.04720	00703	.01474	.44510 .45523	.07045	00552	.01534
10.000	7.500	.47028	08952	.00811	.04625	00635	.01372		.07131	00454	.01473
10.608	15.000	.48518	00983	00018	.04631	00551	.01432	.46479	.07218	00378	.01521
10.000	30.000		00985	00694	.04744	00551		.47952	.07457	00225	.01553
10.000	45.000		00987	01092	.04891	00378	.01583	.50073	.07829	00150	.01634
10.000	60.000	_	00999	01531	.05036	00316	.01623	.51430	.08057	0009)	-01E5¥
	GRADIENT		00026	00276	.03935	-100316 #5000.	.01652	.52900	-09353	00023	.0:631
				-00210	*00004	•00024	~.00084	.00291	.00023	.00023	00000B

DATE 04 DEC 75 TABULATED SOURCE DATA - CA20

(NGN112) ( 11 MAR 75 ) CRBITER DATA CAED 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 3.000 ELV-IB = .000 ELV-09 = 1109.0000 IN.XO XHRP = SREF = 2690.0000 SQ.FT. .600 5.000 MACH ELEVON \* .0000 IN.YO YHRP = LREF = 474.8100 IN. -5.000 BETAD -PHI .000 375.0000 IN.ZO ZHRP = BREF = 936.6800 IN. .000 DY 10.000 BETAC -.0300 SCALE = 4.000 10.300 ALPHAC = ĐΧ .00/ 12.00 GRADIENT INTERVAL . 3.28 RN/L = ALPHAO - 10.000 CSL ELN CL CD CBL CYN CLM CY CA CN DZ .01572 .05937 -.00650 .01435 .39434 -.08913 .04621 .01613 .000 .39866 -.01001 .05111 -.00553 .01528 -.00820 .01407 .41287 -.01151 .00075 .04646 .41721 3.000 -.00495 .01558 .01449 .42291 .06219 .04591 -.00758 -.00282 .42728 -.01219 7.500 .01525 .01495 .44109 .06527 -.00392 -.08652 .04557 -.00768 .44572 -.01232 15.000 -.00244 .01655 .46599 .06923 -.00527 .01598 -.01095 .04694 -.01274 .47093 30.000 -.00172 .01651 -,00456 .01596 .48237 .07154 .04836 -.01421 -.01292 45.000 .48753 .01650 .07503 -.00099 .58060 -.00376 .01610 .04980 -.01304 -.01682 .50603 60.000 .00020 -.00001 .00368 .00035 -.00006 .00020 .00002 -.00239 -.00028 GRADIENT .00369 .00/ 12.00 GRADIENT INTERVAL = 3.29 RN/L = ALPHAO = 14.000 C51. CLN CL CD CYN CY CBL CA CLH OΖ .01821 .11979 -.00133 .01735 .61334 14540. -.00570 .04685 -.03215 .600 .62410 .63055 .12279 -.00047 .01671 -.00450 .01610 .04396 -.03341 .02824 .64153 3,000 .00026 .01579 .12576 .01539 .64557 .04491 -.00357 .01420 .65691 -.03418 7.500 .01695 .00101 .01593 .65856 .12993 -.00291 .04495 .01036 .67851 -.03337 15.000 .00181 .01649 .69338 .13791 .01543 -.00223 .00385 .04708 -.03151 .69644 30.000 .01685 .00181 .14289 -.00232 .01679 .69911 .64835 -.00089 -.03048 45.000 .71291 .01709 .14623 .00194 .71077 -.00225 .01784 .05004 -.03007 -.00539 .72504 60.000 .00021 -.00031 .00079 .00424 .00032 .00028 -.00025 -.00426 -.00026 .08430 GRADIENT

PAGE 713

PACE 714

		CY50	747/1	01 51	OF	BITER DATA	l .	INGN11	3) (18 14/	R 75 1
REFERENCE	DATA						ı	PARAHSTRIC	DATA	
SREF = 2690.0000 SQ.F LREF = 474.8100 IN. GREF = 935.6900 IN. SCALE = .0300	YMRP	00	00 IN.XO 00 IN.YO 00 IN.ZO				ELV-IB = ELEVON = EETAO = PHI = DX =	.000 5.000 -5.000 .000	ELV-08 = MACH = BETAC = DY = ALPHAC =	3.000 .600 .003 10.000 8.000
	RUN NO.	0/ 0	RN/L *	3.26 GRAI	DIENT INTERV	/AL = .0	10, 12.00			
ALFHAO DZ 14.000 .000 14.000 3.000 14.000 7.500 14.000 15.000 15.000 30.000 14.000 45.000 15.000 GRADIENT	CN .56361 .59348 .60610 .63464 .62013 .71115 .73139	CA 02442 02598 02647 02654 02691 02692 02630 00026	CLH .04934 .03810 .03046 .02458 .01557 .80229 .00124	CY .05500 .05201 .05111 .04836 .04766 .04896 .04898 08052	CBL01146008750056900471002750026500164 .00062	CYN .01308 .01274 .01339 .01450 .01606 .01674 .01740	CL .55278 .57243 .59450 .62223 .65544 .69547 .71615	CD .11265 .11595 .1259 .12768 .13643 .19621 .15093	CSL 007PS 00541 00325 00107 .00122 .00205 .00261	CLN .01546 .01448 .01457 .01521 .01624 .01674 .01723
		CAEO	747/1	01 51	OF	BITER DATA	•	INGN11	4) ( D5 S8	P 75 )
REFERENCE	DATA						•	PARAMETRIC	DATA	
EREF = 2590.0000 SQ.F LREF = 474.0100 IN. BREF = 935.6800 IN. SCALE = .0300	T. XHRP YKRP ZKRP	00	00 IN.XO 80 IN.YO 80 IN.ZO				ELV-IB = ELEVON = PHI = EETAC = DX =	.000 5.000 .000 .000	ELV-0B = HACH = EITAO = DY = ALPHAC =	3.000 .600 -5.000 10.000 8.000
LREF = 474.8100 IN. BREF = 935.6800 IN.	YKRP	00	80 IN.YO	GRADIENT INT	ERVAL = .	.00/ 12.00	ELEVON = PHI = BETAC =	5.000 .000 .000	HACH = EITAO = DY =	.600 -5.000 10.009

ATE 04 DEC 75 TABULATED SOU	RCE DATA - CA2
-----------------------------	----------------

DATE 04	DEC 75	TABULA	ITED SOURCE	DATA - C	V50					P	NGE 715
			CA20	747/1	O1 S1		ORBITER DAT	A	ENGN1	14) ( 05 9	EP 75 )
	REFERENCE	DATA							PARAMETRI	C DATA	
SREF =	2690.6080 SQ.F		= 1109.00	00.NI 00				ELV-18 =	.000	ELV-08 =	3.000
LREF =	474.8100 IN.	YHRP		100 IN.YO				ELEVON =	5.000	MACH =	.600
eref =	936.6900 IN.	ZMRP	* 375.00	100 IN.ZO				PHI =	.000	EETAO -	-5.000
SCALE =	.0300							BETAC =	.000	DY -	10.000
								DX #	10.000	ALPHAC =	8.000
			RN/L =	3.22	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO											
	OZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.50403	02466	.03427	. 05416	01175	.01267	.49502	.09801	00834	.0!514
	3.000	.58811	02602	.05569	.05270	00972	.01269	.51872	.10252	00637	.01467
	7.500	.55582	02754	.01811	.04957	00799	.01361	.54597	-10774	00446	.01513
	15.000	.59128	02804	.01475	.04806	00551	.01436	.59050	.115B4	00187	.01527
	30.000	.64825	02920	.01025	.04710	00283	.01605	.63505	.12849	.00113	.01626
	45.000	.68567	-,02931	.00609	.04858	00193	.01708	.67239	.13743	.00226	.01704
	60.000 GRADIENT	.71368 .00685	03003 00038	00206	8+8+0. 58080. <del>.</del>	00074 .00049	.01786 .00013	.699 <b>7</b> 4 .00674	.14351 .00129	.00351 .00051	.01750 .00001
			CAZD	747/1	01 51		ORBITER DATA		(NGN11	5) (11 #	AR 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF =	2690.0000 SQ.F	T. XMRP	- 1109.00	00 IN.XO				ELV-18 =	.800	ELV-09 =	3.000
LREF =	474.8100 IN.	YHRP	00	00 IN.YO				ELEVON =	5.000	MACH =	.600
BREF =	936.6900 IN.	ZHRP	* 375.00	80 IN.ZO				PHI =	.000	EETAO =	-5.000
SCALE =	.0308							BETAC =	5.000	DY =	.000
								ĐX =	10.000	ALPHAC =	4.000
			RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CST	CLN
	.000	.35745	00241	.03120	.05863	01193	.01435	.35244	.05970	00926	.0:620
	3.000	.38394	00573	.01166	.05566	01032	-01539	.37910	.06103	00749	.01695
	7.500	.40299	00786	.00336	.05312	00886	.01576	.39823	.06224	00599	.01706
	15.000	.43135	00959	00632	.05133	00707	.01625	.42648	.05536	00415	.01723
	39.000	.46624	01116	01348	.05064	00502	.01691	.46109	.06997	00201	.01753
	45.000	.48679	01160	01729	.05055	00449	.01692	.48141	.07310	00149	.01745
	60.000	.50961	01204	02125	.05042	00383	.01700	.50396	.07654	00082	.01740
	GRADIENT	.00593	00071	00357	00072	.00040	.00018	.00596	.00033	.00043	.00011

			CX50	747/1	01 SI		ORBITER DAT	A	(NGN1	15) ( 11 H	IAR 75 1
	REFERENC	E DATA							PARAMETRI	C DATA	
SREF = LREF = BREF = SCALE =	2690.0000 SQ. 474.8100 IN. 936.6800 IN. .0300	FT. XMRP YMRP ZMRP	= .0	003 IN.XO 004.NI 888 004.NI 888				ELV-18 = ELEVON = ELTAC = DX =	.009 5.009 .000 5.000 10.000	ELV-09 = MACH = EETAO = DY = ALPHAC =	3.000 .600 -5.000 .600 4.000
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALFHAO	= 14.000										
	DZ	CN	CA	ÇLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.080	.59162	01697	.07962	.05216	00689	.01713	.56B45	.12424	00255	.01829
	3.000	61498	02434	.04877	.05559	00580	.01535	.60260	. 12517	00192	.01630
	7.509	.63227	02901	.03016	.05397	00450	.01589	-62833	. 12526	00052	.01649
	15.000	.66400	03041	.01562	.05205	00309	.01655	.65164	.13113	.00100	.01691
	30.000	.69551	03003	.00245	.05152	00256	.01784	.68309	.13936	.00164	.01715
	45.000	.71528	02951	00384	.05097	00259	.01735	-70117	. [444 ]	.00169	.01747
	60.000	.72799	02968	80795	.05069	00218	.01754	.71355	.14732	.00222	.01794
	GRADIENT	.00737	00158	00640	.00019	.00032	80014	.00753	.00027	.00027	00022
	REFERENCE	: DATA	CAEB	747/1	OI SI		ORBITER DATA	•	(NGN11		AR 75 )
	REFERENCE	: DATA	CASB	747/1	OI SI		ORBITER DATA	<b>L</b>	INGNII PARAMETRIC		AR 75 )
SREF = LREF = SCALE =	REFERENCE 2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	T. XMRP YMRP	= 1169.00 = .00	747/1 080 IN.XO 080 IN.YO 080 IN.ZO	OI SI		CRBITER DATA	ELV-IB = ELEVON = PHI = EETAC = DX =			3.000 .600 -5.000 .600 8.000
LREF =	2690.0000 SQ.F 474.8100 IN. 936.6900 IN.	T. XMRP YMRP	= 1169.00 = .00	000 IN.XO 000 IN.YO 000 IN.ZO	OI SI GRADIENT INT		.60/ 12.00	ELV-IB = ELEVON = PHI = EETAC =	.000 5.000 .000 5.000	ELV-08 = MACH = EEYAD = DY =	3.000 .000 -5.000
LREF =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	T. XMRP YMRP	= 1169.00 = .00 = 375.00	000 IN.XO 000 IN.YO 000 IN.ZO				ELV-IB = ELEVON = PHI = EETAC =	.000 5.000 .000 5.000	ELV-08 = MACH = EEYAD = DY =	3.000 .000 -5.000
LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	T. XMRP YMRP	= 1169.00 = .00 = 375.00	000 IN.XO 000 IN.YO 000 IN.ZO				ELV-IB = ELEVON = PHI = EETAC =	.000 5.000 .000 5.000	ELV-08 = MACH = EEYAD = DY =	3.000 .000 -5.000
LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 935.6800 IN. .0300	T. XHRP YHRP ZHRP	= 1169.60 = .60 = 375.00	3.25	GRADIENT INT	erval =	.00/ 12.00	ELV-IB = ELEVON = PHI = EETAC = OX =	.000 5.000 .000 .000 5.000 10.000	ELV-OB = MACH = EETAD = DY = ALPHAC =	3.000 .600 -5.000 .000 8.000
LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 935.6890 IN. .0300	T. XMRP YMRP ZMRP	= 1169.60 = .60 = 375.00 RN/L =	3.29	GRADIENT INT	erval = Cel	.607 12.00 CYN	ELV-IB = ELEVON = PHI = EETAC = DX =	.000 5.000 .000 5.000 10.000	ELV-OB = MACH = BETAD = DY = ALPHAC =	3.000 .600 -5.000 .600 8.000
LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300	T. XMRP YMRP ZMRP  CN .22309	= 1169.60 = .60 = 375.00 RN/L = CA 0805	3.28 CLM .00152	GRADIENT INT CY .06262	COL 01587	.80/ 12.80 CTN .01599	ELV-IB = ELEVON = PHI = EETAC = DX = CL .21970	.000 5.000 .000 5.000 10.000	ELV-08 = MACH = EETAO = DY = ALPHAC = CSL01384	3.000 .600 -5.000 .000 8.000 CLN .01858
LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6890 IN. .0300 .0300 DZ .000 3.000	T. XMRP YMRP ZMRP  CN .22309 .24750	= 1169.00 = .00 = 375.00 RN/L = CA 00005 00144	3.29 CLM .00152 00294	GRADIENT INT CY .06262 .05288	COL 01587 01525	.607 12.00 CYN .01599 .01626	CLV-IB = ELEVON = PHI = EETAC = DX = CL .21970 .24399	CD .03869 .04155 .04634	ELV-08 = MACH = EETAO = DY = ALPHAC = CSL0138401022	3.000 .600 -5.000 .600 8.000 CLN .01858 .01855
LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6890 IN. .0300 10.000 DZ .008 3.000 7.500	T. XMRP YMRP ZMRP  CN .22309 .24750 .28313	= 1169.00 = .00 = 375.00 RN/L = CA 00005 00144 00287	3.28 CLM .00152 00294	GRADIENT INTO CY .06262 .05988 .05544	CBL 01587 01525 01327	.60/ 12.00 CYN .01599 .01626 .01640 .01605	ELV-IB = ELEVON = PHI = EETAC = DX = CL .21970 .24399 .27933 .32689	CD .03969 .04155 .04634 .05328	ELV-08 = MACH = PETAO = DY = ALPHAC = CSL01384012190102200763	3.000 .5000 -5.000 .600 8.000 CLN .01658 .01656
LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN. .0300 10.080 DZ .000 3.000 7.500 15.000	T. XMRP YMRP ZMRP  CN .22309 .24750 .28313 .33117	= 1169.00 = .00 = 375.00 RN/L = CA 00005 00144 00207 00429 00570	3.28 CLM .00152 00294 00843 01163	CY .06262 .05988 .05544 .05326 .05139	COL. 01687 01525 01327 01057 00758	.60/ 12.00 CYN .01599 .01626 .01640 .01605 .01702	ELV-IB = ELEVON = PHI = EETAC = DX = CL .21970 .24399 .27923 .32689 .39112	CD .03969 .04155 .04328 .05216	ELV-08 = MACH = PETAO = DY = ALPHAC = CSL01384010220076300451	3.000 .600 -5.000 .600 8.000 CLN .01858 .01656 .01764 .01608
LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6890 IN. .0300 10.000 DZ .000 3.000 7.500 15.000 30.000	CN .22309 .24750 .28313 .33117 .39597	= 1169.00 = .00 = 375.00 RN/L = CA 00005 00144 00287 00429	380 IN.XO 380 IN.YO 300 IN.ZO 3.25 CLM .00152 00294 00576 00843	CY .06262 .05988 .05544 .05326	CBL 01587 01525 01327 01057	.60/ 12.00 CYN .01599 .01626 .01605 .01702 .01695	ELV-IB = ELEVON = PHI = EETAC = DX = CL .21970 .24399 .27923 .32669 .39112 .42995	CD .03869 .05216 .05790	ELV-08 = MACH = EETAD = DY = ALPHAC = CSL0138401022007630045100295	3.000 .600 -5.000 .600 8.000 CLN .01658 .01656 .01764 .01608
LREF = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 935.6890 IN. .0300 DZ .000 3.000 7.500 15.000 45.000	CN .22309 .24750 .28313 .33117 .99597 .43522	= 1169.00 = .00 = 375.00 RN/L = CA00805 00144 00287 00429 00670 00779	3.28 CLM .00152 00294 00163 01163 01461	CY .06262 .05288 .05326 .05139	COL. 01687 01525 01327 01057 00758 00598	.60/ 12.00 CYN .01599 .01626 .01640 .01605 .01702	ELV-IB = ELEVON = PHI = EETAC = DX = CL .21970 .24399 .27923 .32689 .39112	CD .03969 .04155 .04328 .05216	ELV-08 = MACH = PETAO = DY = ALPHAC = CSL01384010220076300451	3.000 .600 -5.000 .600 8.000 CLN .01858 .01656 .01764 .01608

. .

----

--

GRADIENT

.00544

-.00064

## TABULATED SOURCE DATA - CA20

PAGE 717 ORBITER DATA CYSB 747/1 01 51 (NGN116) ( 11 MAR 75 ) PARAMETRIC DATA REFERENCE DATA XMXP = 1109.0000 IN.XO ELV-IB -ELV-08 -3.000 SREF = 2690.0000 50.FT. .000 ELEVON = LREF 474.9!00 IN. YHRP .0000 IN.YO 5.000 MACH .500 BREF = 936.6800 IN. ZMRP 375.0000 IN.ZO PHI .000 EETAO --5.**C**00 BETAC SCALE = .0300 5.000 .000 -DY ÐХ 10.000 ALPHAC = 9.000 GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.26 ALPHA0 = 14.000 DΖ CA CLH CY CBL. CYN CL CD CSL CLN CH -.01866 .04548 .05779 -.01171 -.00798 .01639 .000 .44942 .01397 .44058 .09062 3.000 .48079 -.02153 .03253 .05251 -.00900 .01499 .47172 .09543 -.00519 .01675 -.02365 .05869 -.00569 .50622 7.500 .51582 .02400 .01510 .10184 -.00284 .01627 -.02644 .01616 .05328 -.08458 .01643 .55054 15.000 .56121 .11011 -.00047 .01705 -.08251 .01731 30.000 .62412 -.02813 .00917 .05140 .61238 .12370 .00175 .01740 45.000 .66404 -.02831 .00183 .05084 -.00190 .01750 .65116 .13317 .00239 .01744 69.000 .69252 -.02870 -.00322 .05083 -.00168 .01801 .67889 .13969 .00273 .01783 -.00065 -.00279 -.00118 .00066 .00019 .00867 .00149 .00067 --000002 GRADIENT .00877 747/1 ORBITER DATA (NGN117) ( 11 MAR 75 ) CYSO O1 S1 REFERENCE DATA PARAMETRIC DATA 1109.0000 IN.XO ELV-IB -3.000 2690.0000 5Q.FT. XHRP = .000 ELV-OB = LREF 474.8100 IN. YHRP = .0000 IN.YO ELEVON = 5.000 MACH = .600 BREF = ZMRP = 375.0000 IN.ZO PHI .000 BETAD = -5.000 935.6900 IN. BETAC = SCALE = .0300 5.000 DY 10.000 DX .000 ALPHAC = 4.000 RUN NO. 0/ 0 RN/L = 3.29 GRADIENT INTERVAL -.00/ 12.00 ĐΖ CA CLH CY CBL CYN CL. CD CSL CLN ALPHAO CN .01148 10.000 .009 .42528 -.00420 .06764 .04877 -.01423 .00914 .41954 .05972 -.01243 3.000 .44467 -.00839 .04096 .04944 -.01169 .01017 .43937 .05835 -.08916 .01194 10.000 .04758 10.000 7.500 .48647 -.00926 .01756 -.00910 .01237 .46099 .07189 -.0CEB1 .01377 10.000 15.000 .48486 -.00949 .00591 .84728 -.00716 .01356 .47914 .07485 -.00469 .01459 -.08514 .01540 -.00239 30.000 .50061 -.00964 -.00467 .84724 .50255 .07882 -01606 10.000 10.000 45.000 .52149 -.00970 -.01001 .04852 -.08424 .01590 .51525 .08100 -.00141 .01640 .53595 -.00978 -.01516 .04954 -.00323 .01652 .52951 .08343 -.00031 .01693 10.000 69.000

-.00556

-.0801B

.00057

.00044

.00547

.00032

.00073

			CA50	747/1	01 SI		ORBITER DATA	<b>\</b>	(NGN11	8) (11 M	AR 75 )
	REFERENC	E DATA							PARAMETRIC	DATA	
SREF = 8 LREF = BREF = SCALE =	2690.0000 SQ.1 474.8100 IN. 936.6800 IN. .3300	FT. XMRP YMRP ZMRP	≖ .00	00 IN.XO 00 IN.YO 00 IN.ZO		•		ELV-IB = ELEVON = PH! = BETAC = DX =	.000 5.000 .000 5.000 10.000	ELV-0B = MACH = BETAO = DY = ALPHAC =	3.080 .600 -5.000 10.000 4.000
			RN/L =	3.29	GRADIENT INT	TERVAL =	.00/ 12.00				•
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.800 60.000 GRADIENT	CN .35951 .39107 .41366 .44269 .46844 .48498 .50416 .00595	CA 00849 01232 01275 01240 01276 01323 +.01379 00053	CLM .05131 .03022 .01453 00252 00910 01279 01626 00479	CY .04479 .04563 .04571 .04579 .04660 .04742 .04807 .00011 GRADIENT INT	CBL 01656 01353 01136 00866 00547 00404 .00068	CYN .01058 .01113 .01225 .01353 .01500 .01570 .01653 .00023	CL .36537 .38727 .40978 .43612 .46354 .47991 .49890 .00585	CD .05581 .05577 .05931 .06466 .06877 .07118 .07397 .00049	CSL 01448 01139 00906 00647 00395 00266 00111 .00071	CLN .01330 .01331 .01405 .01468 .01593 .01641 .01698 .00011
ALPHAO =	14.008 02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .59629 .61169 .63967 .66535 .69735 .71494 .72577	CA 02130 02915 03472 03365 03231 03119 03050 00175	CLM .09730 .06693 .03727 .01910 .00532 00049 00592 00769	CY .04283 .04373 .04565 .04634 .04736 .04088 .05087	CBL 01540 01152 00772 00541 00355 00254 .00101	CYN .01484 .01490 .01467 .01545 .01693 .01739 .01770	CL .57403 .60057 .62927 .65373 .68445 .70125 .71159	CD .12117 .11970 .12111 .12932 .13736 .14270 .14598	CSL 01135 00757 00395 00151 .00114 .00173 .00182	CLN .01813 .01724 .01610 .01630 .01716 .01749 .01779 00027

•

....



TABULATED SOURCE DATA - CARD

.00859

GRADIENT

-.08042

-.00465

-.00028

(NGN119) ( 11 MAR 75 ) ORBITER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA 3.000 ELV-09 = XHRP = 1109,0000 IN.XO ELV-18 = .000 = 2690.0000 SQ.FT. HACH .600 ELEVON = 5.000 YHRP .0000 IN.YO LREF 474.8100 IN. .000 BETAO --5.000 PHI ZHRP 375.0000 IN.ZO \$18.6800 IN. BREF = 10.000 PETAC 5.000 DY .0300 SCALE = B.300 10.000 ALPHAC = 3.23 GRADIENT INTERVAL -.00/ 12.00 ALPHAD = 10.000 CD CSL CLN CBL CYN CL CLH CY DZ CN CA -.02059 .01105 .04856 -.02219 .00731 .22880 .03451 -.00575 .02855 .23132 .000 -.01965 .00937 .24989 .03915 -.01809 .01169 .01880 .04985 -.00582 3.000 .25272 .04852 -.01429 .01295 .30517 -.01632 .01027 -.00521 .00491 .04945 7.500 .30896 .05559 -.01109 .01405 .34751 -.00110 .04811 -.01336 .01191 -.00561 15.000 .35169 .40845 .06542 -.00692 .01555 -.08942 .01414 -.00527 .04791 -.00550 30.000 .41360 .01612 .43241 .05850 -.004ES .01503 -.00763 -.00353 .04915 -.00758 .43774 45.080 .47210 .07419 -.00188 .01709 .04992 -.00482 .01651 .47781 -.00892 -.01178 60.000 .00190 .00084 .00025 .00078 .00340 .01035 **GRADIENT** .01052 .00000 -.00315 .00010 GRADIENT INTERVAL -.00/ 12.00 3.82 RN/L -ALPHAO = 14.000 CYN CL CD CSL CLN CBL CA CLH CY CN ĐZ .08947 -.01832 .01270 .45884 .07133 .05379 -.02085 .00789 -.02419 .000 .46686 .01275 -.01400 .05313 -.01657 .00899 .48595 .09329 .05207 3,600 .49409 -.02704 -.00984 .01357 .52231 .10186 -.01283 .01079 .53144 -.02757 .03576 .05170 7.500 .11267 -.00538 .01416 .56623 -.02766 .02254 .04959 -.08865 .01244 15.000 .57667 -.00495 .01535 .62434 .12620 -.00110 .01610 .04703 -.02859 .01344 30.000 .63633 .65854 .13458 .00050 .01664 -. 10354 .01626 .67163 -.02876 .00740 .04808 45.000 .01720 .00165 .04937 -.00237 .01713 .68518 .14106 .00072 60.000 .69896 -.02899

.00039

.00105

.00843

.00167

.00111

PAGE 719

.00249

GRADIENT

-.08064

		CA20	747/1	01 SI	(	ORBITER DATA		(NGN12	0) (11 10	u <b>र 7</b> 5 )
REFERENCE	DATA							PARAMETRIC	DATA	
4.8100 IN.	r. XMRP YHRP ZMRP	000	OY.NI OC			·	ELV-IB = ELEVON = EETAD = DX = EETAC =	.000 5.000 -5.000 .000 -5.000	ELV-08 = MACH = FHI = DY = ALPHAC =	.600 .600 .000 10.000 4.000
		RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.60				
02 .000 3.000 7.500 15.000 30.000 45.000 60.000	CN .43049 .44782 .45572 .47400 .49857 .51629 .53544 .00324	CA 01042 01234 01368 01455 01560 01574 01558 00042	CLM .01833 .00475 .00323 00291 00742 01185 01725 80183	CY .04425 .04351 .04454 .04600 .04860 .05104 .05324 .00005	CBL0035600355003690036000297002750024600002	CYN .01637 .01635 .01642 .01647 .01719 .01729 .01717 .00801	CL .42576 .44316 .45117 .46933 .49380 .51118 .53003	CD .06450 .06562 .06566 .06798 .07123 .071415 .07754 .00014	CSL 000ES 000ES 000F8 000ES 000ES 000ES 000ES	CLN .01674 .01672 .01691 .01694 .01744 .01750 .01733 .00001
02 .000 3.000 7.500 15.000 30.000 45.000	CN .63056 .69725 .70037 .70008 .72421 .73589	CA 02229 02328 02725 02842 02817 02817	CLM .04611 .02490 .01897 .01440 .00734 .00155	CY .04275 .04390 .04609 .04754 .05107	CSL 00255 00253 00356 00356 00421 00423	CYN .01878 .01716 .01619 .01633 .01678 .01731	CL .66574 .69279 .68616 .69393 .70951 .72185	CD .14302 .14408 .14300 .14372 .14787	CSL .00207 .00179 .00095 .00049 00002	CLN .01894 .01723 .01645 .01671 .01730
	0.0000 SQ.F7 4.8100 IN. 6.6880 IN. 0.300  0.680  0.680  0.000 30.000 45.000 60.000 RADIENT  9.680  0.680  7.500  15.000 30.000 45.000 60.000 RADIENT	4.0100 IN. YHRP 6.6880 IN. ZMRP .0300  0.000  02 CN .000 .43049 3.000 .94782 7.500 .95572 15.000 .9780 30.000 .51629 60.000 .53594 RADIENT .00324  9.000  02 CN .000 .63056 3.000 .69735 7.500 .70037 15.000 .70008 30.000 .72421 45.000 .73569	REFERENCE DATA  0.0000 SQ.FT. XMRP = 1109.000 4.0100 IN. YMRP = .000 6.6900 IN. ZMRP = 375.000  RN/L =  0.000  DZ	REFERENCE DATA  0.0000 SQ.FT. XMRP = 1109.0000 IN.XO 4.8100 IN. YMRP = .0000 IN.YO 6.6880 IN. ZMRP = 375.0000 IN.ZO .0300  RN/L = 3.26  0.000  DZ	REFERENCE DATA  0.0000 SQ.FT. XMRP = 1109.0000 IN.XO 4.8100 IN. YMRP = .0000 IN.YO 6.6980 IN. ZMRP = 375.0000 IN.ZO .0300  RN/L = 3.26 GRADIENT INT  0.000  DZ	REFERENCE DATA  0.0000 SQ.FT. XMRP = 1109.0000 IN.XO 4.8100 IN. YHRP = .0000 IN.YO 6.6800 IN. ZHRP = 375.0000 IN.ZO .0300  RN/L = 3.26 GRADIENT INTERVAL =  0.000 DZ	REFERENCE DATA  0.0000 SQ.FT. XMRP = 1109.0000 IN.X0 4.8100 IN. YMRP = .0000 IN.Y0 6.6800 IN. ZMRP = 375.0000 IN.Z0  RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00  0.000  02	REFERENCE DATA  0.0000 S0.FT. XMRP = 1109.0000 IN.X0 4.8100 IN. YMRP = .0000 IN.Y0 6.6800 IN. ZMRP = 375.0000 IN.Z0  RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00  0.000  02	REFERENCE DATA  0.0000 SO.FT. XMRP = 1109.0000 IN.X0 4.0100 IN. YMRP = .0000 IN.Y0 6.6800 IN. ZMRP = 375.0000 IN.Z0  0.0000 0X = .000 0X = .0056 0.06450	REFERENCE DATA  0.0000 SQ.FT. XMRP = 1109.0000 IN.X0 4.8100 IN. YMRP = .0000 IN.Y0 6.6800 IN. ZMRP = 375.0000 IN.Z0

.00045

-.00007

TABULATED SOURCE DATA - CA20

PAGE 721

			CY50	747/1	OI SI		ORBITER DATA	4	CNGN1S	1) CII M	4R 75 )
	REFEREN	CE DATA							PARAMETRIC	DATA	
SREF =	2690.0000 50	.FT. XHRP	- 1109.00	סא.או פפנ				ELV-IB =	.000	EFA-08 =	.000
LREF =	474.8100 IN	- PHYP	= .08	סע.או סמכ				ELEVON =	5.000	HACH =	.600
BREF =	936.6800 IN	. ZMRP	= 375.00	000 IN.ZO				BETAO =	-5.000	PHI =	.000
SCALE =	.0300							DX =	.000	DY =	10.000
								BETAC -	-5.000	ALPHAC =	8.000
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO •		•									
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN
	.000	.28717	00317	.00787	.04929	01043	.01483	.28335	.04674	00770	.0:642
	3.000	.30947	00443	.00607	.04754	01041	.01453	.30554	.04937	08773	.01511
	7.500	.33626	00588	.00485	.046 <del>96</del>	00994	.01437	.33217	.05260	00730	.01528
	15.000	.37610	00749	.00193	.04689	00879	.01502	.37168	.05794	00604	.01632
	30.000	.43085	00968	00198	.04963	00660	.01622	.42599	.06528	00369	.01712
	45.000	.46710	01092	00724	.05163	00520	.01691	.46190	.07036	00221	.01745
	60.000	.50276	01195	01266	.05385	00399	.01727	.49720	.07554	00092	-01770
	GRADIENT	.00650	00036	00039	00030	.08087	00006	.00646	.00078	.00006	00037
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	C2L	CLN
	.000	.54883	02394	.03902	.04951	00584	.01542	.53832	.10954	00194	.01637
	3.000	.56834	02585	.03212	.04816	08517	.01457	.55772	.11241	03159	.01539
	7.500	.58967	02694	.02849	.04670	00478	.01493	.57771	.11627	00102	.01554
	15.000	.61757	02739	.02421	.04695	06427	.01550	.60585	.12282	00040	.01637
	30.000	.66560	02779	.01592	.05008	00337	.01636	.65255	.13406	.00069	.01669
	45.000	.69617	02747	.00844	.05239	00384	.01674	.68213	.14177	.00033	.01717
	60.000	.71596	02752	.00104	.05480	00386	.01752	.70135	.14650	.00849	-01754
	GRADIENT	.00525	00039	00136	00037	.00014	00005	.00519	.00089	S1000.	00003

OF POOR QUALITY

			CAR	3 747/1	01 51		ORBITER DATA	A	CNGNI	22) (11)	4AR 75 1
	REFEREN	CE DATA							PARAMETRI	C DAYA	
SREF =   LREF =   EREF =   SCALE =	2690.0000 SD. 474.8100 IN. 936.6800 IN. .0300	YMRP	* .0 * 375.0	00.01 0000 10.40 10.20 10.20				ELV-IB = ELEVON = EETAO = DX = BETAC =	.000 5.000 -5.000 .000	ELV-03 = MACH = PHI = DY = ALPHAC =	.000 .600 .000 10.000 4.000
			RN/L =	3.33	GRADIENT IN	ITERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .93205 .94565 .95599 .97307 .49732 .61519 .53380 .00305	CA 01432 01569 01612 01645 01646 01633 01624 00023	CLM .01925 .00810 .00430 00142 00699 01160 01655 00190	CY .04899 .04969 .04767 .04809 .04930 .05119 .05293 00018	CBL00788005930062400493003470029900258 .00021	CYN .01402 .01407 .01494 .01544 .01659 .01669 .01726 .00013	CL .42797 .44161 .45137 .46874 .49262 .51015 .52821	CD .06093 .06193 .06322 .06554 .07015 .07337 .07655 .00030	CSL 00533 00429 00355 00217 00055 00000 .00049 .00023	CLN .01517 .01504 .01506 .01605 .01655 .01724 .01744
© CA∺9JA	19.000 92 .000 3.000 7.500 15.000 30.000 95.000 60.000 GRADIENT	CN .69362 .70391 .70535 .70691 .7227 .73410 .74200	CA 03127 03112 0305 02871 02722 02854 02639 .60005	CLM .03572 .02419 .01920 .01440 .00595 .00091 00424 00212	CY .04358 .04778 .04909 .05021 .05207 .05341 .05615	CEL 08503 00445 00442 00559 00595 00598 00609	CYN .01838 .01557 .01515 .01502 .01600 .01635 .01693	CL .68543 .69044 .69187 .69480 .70837 .71879 .72634	CD .13867 .14007 .14067 .14364 .14857 .15155	CSL 00044 00055 00062 00179 00190 00169	CLN .01905 .01618 .01577 .01593 .01695 .01787

69.000

GRADIENT

.71218

.00554

-.02547

-.08026

TABULATED SOURCE DATA - CA20

ORBITER DATA (NGN123) ( 11 MAR 75 ) CA20 747/1 OI SI PARAHETRIC DATA REFERENCE DATA .000 ELY-09 = .000 ELV-IB = XHRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. 5.000 MACH .600 ELEVON -YMRP. .0000 IN.YO 474.8100 IN. LREF .000 BETAO --5.000 PHI 375.0000 IN.ZO ZMRP BREF = 935.6800 IN. .000 DY 10.000 DX SCALE = .0300 BETAC = .000 ALPHAC = B.000 GRADIENT INTERVAL = . .00/ 12.00 RN/L = 3.28 ALPHAO = 10.000 CLN CD CSL CL CLH CY CBL CYN CA ĐΖ CH .01453 .27814 .04254 -.01275 .05620 -.01507 .01209 .01419 .28131 -.00631 .000 .01504 .30326 .04633 -.01128 .01285 .05346 -.01372 .30670 -.00704 .00882 3.000 -.00974 .01532 .33129 .05054 .00759 .05104 -.01225 .01339 -.00776 .33503 7.500 .05647 -.00749 .01533 .01429 .36998 .00359 .04989 -.01013 -.00963 15,000 .37417 .05450 ~.00429 .01676 -.00714 .01576 .42476 -.01024 -.00103 .05020 .42951 30.000 .01720 .46080 .05958 -.00226 -. CD521 .01655 -.00655 .05134 -.01140 45.000 .46590 .01752 -.00027 .49510 .07484 .05232 -.0033t .01721 .50156 -.01245 -.01251 60,000 .00010 .00104 .80840 -.00058 .00037 .00017 .00702 -00709 -.00019 -.00083 GRADIENT 3.26 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAO \* 14.000 CLN CD CSŁ CYN CL CBL CA CLM CY CN 0Z -.00778 .01553 -.01130 .01319 .53475 .10510 .04461 .05632 -.02642 .000 .54453 -.00542 .01492 .55473 .10948 -.00887 .01316 .05459 3.000 .56474 -.02798 .03658 -.00352 .01501 .57669 .11446 .03118 .05209 -.00705 .01371 -.02846 .5B725 7.500 .60923 .12167 -.00119 .01593 -.00501 .01517 .02568 .04932 15.000 .61959 -.02909 .00071 .01662 .13353 -.00333 .01630 .65419 .01638 .05010 .66786 -.02870 30.000 -.00015 .01687 .01634 .69150 .14193 .05254 -.08423 -.02715 .08842 45.000 .69559

.05585

-.00056

-.00582

.00055

.00089

-.00174

PAGE 723

-.00165

.00056

.14758

.00111

.69719

.08554

.01654

.00007

01746

-.00005

-.02874

-.00103

.74033

.00419

60.000

GRADIENT

-.00381

-.00552

CA20 747/1 01 S1

ORBITER DATA

+.00014

.00432

(NGN1241 ( 11 MAR 75 )

-.00002

.00066

-.00031

•	REFEREN	CE DATA							PARAMETRIC	DATA	
LREF =	690.0000 SQ 474.8100 IN 926.6800 IN .0300	. YHRP	66	00 IN.XO 00 IN.YO 00 IN.ZO				ELV-IB = ELEVON = EETAO = DX = EETAC =	.000 5.000 -5.009 .000 5.000	ELV-08 = MACH = PHI = DY = ALPHAC =	.000 .000 .000 0.000 9.000
			CIVL =	3.25	GRADIENT I	NTERVAL =	.00/ 12.00			٠	
ALFRAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000	CN .91259 .93313 .9261 .97633 .50264 .51653 .93607	CA 01296 01530 01571 01609 01639 01635 01630 00035	CLM .05188 .03159 .01335 .00338 00594 01109 01576 00505	CY .05093 .05040 .04862 .04895 .04835 .03018 .03163	01059 08990 08654 00458 00360 00272	CYN .00931 .01083 .01300 .01419 .01604 .01657 .01716	CL .48964 .42921 .45142 .47189 .49805 .51448 .53075	CD .05907 .05015 .05354 .05697 .07119 .07411 .07703	CSL 01110 0853 0651 00408 00173 00065 .00031	CLN .01191 .01250 .01435 .01513 .01659 .01709 .01707 .00039
			EN/L o	3.23	CRADIENT I	NTERVAL -	.00/ 12.00				
ALFHAO =	19.080 0Z .080 3.000 7.500 16.000 90.000	CR3 .65503 .67490 .69933 .70362 .78146 .73541	CA 02357 02880 03161 02888 02889 02871 02874	CLII .0858B .05789 .05410 .02105 .00659 .00154	CY .0%275 .0%6%3 .0%655 .0%655 .05126	00805 00571 00514 00443 00423	CYN .01514 .01414 .01400 .01504 .01654 .01654	CL .64491 .65153 .67776 .68984 .70703 .71857	CD .13571 .13526 .13541 .14125 .14640 .14958	CSL 00723 00439 00156 00153 00037 00000	CLN .01741 .01557 .01457 .01593 .01693 .01746

.05326

.00075

DATE 84 DEC 75 TABULATED SOURCE DATA - CA20

GRADIENT

.00752

-.00052

-.08494

-.00043

ORBITER DATA CA20 747/1 01 51 (NGN125) [ 11 HAR 75 ] REFERENCE DATA PARAMETRIC DATA 2690.0000 SQ.FT. 1109.0000 IN.XO ELV-13 = .080 ELV-09 --000 XHRP ELEVON -LREF 474.8100 IN. YHRP .0800 IN.YO 5.000 HACH -600 BREF 936.6800 IN. ZMRP 375.0000 IN.ZO BETAG . -5.000 PHI .080 SCALE -.0300 10.000 DX .000 DY BETAC = 5.000 ALPHAC = 8.000 GRADIENT INTERVAL = RN/L = 3.23 .00/ 12.03 ALPHAO = 10.000 ΩZ CA CLH CY CEL CYN CL CD CSL CLN CH -.00731 .03799 -.01932 .000 .27778 .05225 .00841 .27483 .04103 -.01757 .01154 -.00752 .02565 -.01691 3.000 .30272 .05156 .01003 .29943 .04516 -.01491 .01282 -.00778 -.01441 7.500 .33502 .01618 .05061 .01141 .33128 .05052 -.01221 .01374 15.000 .37604 -.00879 .00843 .05022 -.91135 .01300 .37166 .05654 -.00B92 .01477 30.000 .43477 -.01018 .00002 .04963 -.00774 .01518 .42993 .055-7 -.0049B .01630 45.000 .47135 -.01141 -.00611 .05057 -.00559 .01618 .46617 .07062 -.00279 .01692 -.01249 -.01226 60.000 .50570 .05171 -.00371 .01700 .50118 .07559 -.00071 .01738 -.00006 GRADIENT .00760 -.00284 -.00022 .00065 .00039 .00749 .00126 .00071 .00027 RN/L = 3.23 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000 CY CBL DZ CH CA CLM CYN ᄄ CD CSL CLN -50333 .000 .51291 -.02337 .08232 .05637 -.01809 .00867 .10141 -.01541 .01278 3.000 .54193 -.02638 .05824 .05542 -.01374 .00981 .53221 .10550 -.01096 .01264 7.500 -.02747 .04413 -.01021 .57013 .05333 .01193 .55984 .11128 -.00702 .01404 15.000 .60788 -.02799 .03080 .050Bt -.00680 .01375 .59659 .11991 -.00327 .01499 30.000 .65996 -.02839 .01814 .04948 -.00413 .01593 .64722 .13213 -.00014 .01650 45.000 -.02773 .69143 .00874 .05104 -.00354 .01653 .67760 .14035 .00056 .01689 60.000 .71250 -.02757 .08086 .05275 -.00364 .01721 .69901 .14562 .00063 .01758

.00094

.00102

.00742

.00131

.00:10

.00018

PAGE 725

CA2D 747/1 02 SI ORBITER DATA (NG/4126) ( 11 MAR 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2590.0000 SQ.FT. XMRP = 1109.0000 IN.XO

.00314

-.00018

-.00201

GRADIENT

LREF =	474.8100 IN. 936.6880 IN.	YMRP ZMRP		000 IN.YO			•	ELV-IB =	.000 5.000	ELV-09 =	3.000 .600
SCALE =	-00							EETAO =	.000	DX =	.000
		RUN NO.	0/0	RN/L =	3.28 GRA	DIENT INTER	/AL = .0	0/ 12.00			
ALPHAO	DZ	CN	CA	CLH	CY	CBL	CYN	EL.	Œ3	CSL	CLN
10.000	.080	.43938	.02238	.04821	08924	.00398	.08844	.42882	.09933	.00399	00025
10.000	3.000	.45295	.02072	.03772	00723	.00184	.08071	.44247	.09306	.60194	.00038
10.000	7.500	.46346	.02088	.03259	00527	.08081	.00093	.45279	.10105	.00095	.00077
10.000	15.000	.47891	.02062	.02642	00274	08041	.00106	.46906	.10347	00022	.00111
10.000	30.000	.50465	.02880	.01931	.00033	00143	.00881	.49278	.10801	00127	.00105
10.000	45.000	.51902	.02102	.01445	.00126	00214	.00037	.50748	-11082	00204	.00074
10.000	60.000	.53268	.02128	.01005	.00185	00276	.00004	.52089	.11346	00271	.00052

CARD 747/1 02 51 ORBITER DATA (NGN127) ( 11 MAR 75 )

.00005

ALPHAC =

.00312

-00037

-.00039

4.000 BETAC =

-5.000

.00013

REFERENCE DATA PARAMETRIC DATA

-.00041

eref =	405010500		XMRP YMRP	c =	1169.0000		ALPHAC ELV-18		4.000 .000	PETAC ELV-09		-5.080 3.080
BREF -	936.6800	IN.	ZERP	•	375.0000	IN.ZO	ELEVON	-	5.000	MACH	=	.600
SCALE -	COEO.						CETAO	•	.000	PHI	=	.608
							DY		.000	DX	-	10.000

		RUN NO.	0/0	RN/L =	3.34 GRA	DIENT INTER	VAL = .81	12.00			
ALFHAD	DZ	CN	CA	CLH	CY	COL	CYN	CL	CD	CSL	CLN
10.000	.000	.40431	.02394	.03887	-,08843	.00442	.00004	.39401	.09378	.68436	00073
10.000	3.000	.42058	.02231	.02957	09572	.00242	.00036	.41030	.09900	.00245	00007
10.000	7.500	.43444	.02203	.02522	00509	S1100.	.09060	.42401	.09713	.00120	.80040
10.000	15.089	.45443	.02115	.02043	00274	00024	.08069	.44365	.09974	00012	.00072
10.000	30.000	.48582	.02057	.01547	00007	00136	.00064	.474B7	.10462	00122	.000B7
10.000	45.000	.58564	.02058	.01284	.00119	00207	.00028	.49437	.10817	00200	.00062
10.000	60.000	.62316	.02076	.00908	.00244	00284	.00005	.51160	.11128	00279	.00054
******	GRADIENT	.00394	08024	00175	.00044	-,00043	.00807	.00392	.00045	C0041	.00015

PAGE 727 DATE 04 DEC 75 TABULATED SOURCE DATA - CA20 CA28 747/1 02 SI ORBITER DATA (NGN128) ( 11 MAR 75 ) REFERENCE DATA PARAMETRIC DATA 2690.0000 SQ.FT. XHRP = 1109.0000 IN.XO ALPHAC = 4.000 PETAC = -5.000 ELV-IB -.000 3.000 LREF 474.8100 IN. YHRP = .0000 IN.YO ELV-09 = BREF = 936.6800 IN. ZMRP 375.0000 IN.ZO ELEVON . 5.000 MACH .600 SCALE = .0300 BETAO = .000 PHI .000 .000 DX 20.000 GRADIENT INTERVAL = .00/ 12.60 RUN NO. 0/ 0 RN/L = 3.32 CY CBL CYN CSL CLN **ALPHAO** DZ CN CA CLM CL CD 10.000 . 530 .38188 .02632 .03156 -.00870 .00543 .00038 .37151 .09224 .00541 -.00058 3.000 .40132 .02434 .02284 -.00581 .00332 .00051 .39099 .09366 .00338 .00003 10.000 .02336 -.00438 .00185 .00074 .40817 .05559 .00040 7.500 .41059 .01805 .00195 10.000 10.000 15.000 .44280 .02173 .01398 -.00234 .00034 .00083 .43230 .09929 .00048 .00076 .47768 .02034 .01105 .00019 -.08085 .00075 .46589 .10298 -.00071 .00023 10.000 30.000 .00912 .00139 -.00170 .00848 .48884 -.00159 .00077 10.000 45.000 .49907 .01986 .10622 10.000 60.000 .51857 .01895 .00827 .00317 -.00263 .00841 .50740 .10872 -.00252 .00385 GRADIENT -.00039 -.00173 .00057 -.08046 .00005 .00480 .00046 -.00045 .00013 .08481 747/1 02 51 ORBITER DATA (NGN1291 ( 11 HAR 75 ) CYSO REFERENCE DATA PARAMETRIC DATA SREF = 2690.0000 SQ.FT. XHRP = 1109.0000 IN.XO BETAC = .000 ELV-18 = .000 ELV-09 = 3.000 ELEVON = 5.000 YHRP .0000 IN.YO LREF 474.8100 IN. HACH .600 BETAO = .000 ZHRP 375.0800 IN.ZO BREF = 936.6800 IN. SCALE = .0300 PHI .000 DY .000 DX .000 ALPHAC = 4.000 RN/L = 3.31 GRADIENT INTERVAL = .00/ 12.00 ALPHA0 = 10.000 CLN CA CLH CY CBL CYN Cł. CD CSL CN -.00199 -.00390 -.00001 .38460 .02447 -.00384 .00055 .000 .39342 .01541 .04523 3.000 .40357 .01576 .03574 -.00181 -.00345 .00007 .39470 .08550 -.00339 .00057 .01589 -.00153 -.80314 .08012 .40749 .03799 -.00307 .00067 7.500 .41658 .02914 .00057 .01615 .02364 -.00144 -.00284 .00018 .42450 .09125 -.00276 15.000 .43390 .00018 -.00253 .00035 .45415 .09535 -.00243 .00080 39.000 .46398 .01604 .01652

.48266

.49939

.00397

45.000

60.000

GRADIENT

.01599

.01621

-.60805

.01232

.00849

-.00209

.00075

.00085

.00085

-.00285

-.00330

.00010

.00009

.00002

-.88821

.47255

.48899

.00304

.05555

.10289

.00847

-.00279

-.00329

01030.

.00059

.00037

.00000

----

PAGE 728 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 ORBITER DETA (NGN129) ( 11 MAR 75 ) . CV50 444/1 05 21 PARAMETRIC DATA REFERENCE DATA ELV-IB . .000 BETAC -.000 XMPP = 1109.0000 IN.XO - 2690.0000 SQ.FT. ELEVON = 5.000 ELV-09 -3.000 .0000 IN.YO YMRP 474.8100 IN. LREF EETAD = .000 MACH .600 ZMRP 375.0000 IN.ZO EREF = 936.6800 IN. .000 PHI .099 DY .0300 SCALE = DX .080 ALPHAC = 4.000 GRADIENT INTERVAL -.00/ 12.00 RN/L = 3.29 ALPHA0 = 14.800 CSL CLN CY CBL, CIN CL CĐ CA CLM Ctl DZ .16718 -.00237 .00118 -.00166 ~.00258 .00657 .64524 .05598 .65652 .09611 .800 .16582 -.00234 .00113 -.00254 .00853 .64215 -.00107 3.000 .68319 .08555 .05222 -.60249 .64223 .16510 -.00221 .00107 .04752 -.00073 .00050 7,500 .66334 .085B0 .00049 .64979 .16947 -.00198 .00100 -.00035 -.60216 .00724 .04154 15.088 .67149 .00091 .17562 -.00214 .66706 .03358 .00163 -.00227 .00027 30.000 .68973 .00903 -.00205 .00085 .02844 .00192 -.00220 .00032 .67968 .17945 .70290 .08259 45.000 .00057 .68865 .18119 -.00191 .00106 .02439 .00264 -.00211 60.000 .71200 .00922 -.00037 -.00013 .00002 -.00001 .00002 -.00001 -.00039 -.08093 -.00112 .00012 GRADIENT (NGN1EO) ( 11 MAR 75 ) 747/1 02 SI ORBITER DATA CVSD PARAMETRIC DATA REFERENCE DATA BETAC -.080 ELV-IB -.000 XMRP = 1169.6888 IN.XO 2690.0000 SQ.FT. 3,000 ELEVON = 5.000 ELV-09 \* 474.8100 IN. YMRP = .0000 IN.YO LREF . EETAO = .000 375.0000 IN.ZO MACH .600 GREF . 936.6800 IN. ZKRP ■ .000 PHI .808 DY .0300 SCALE -ĐΧ 10.000 ALPHAC -4.000 GRADIENT INTERVAL . 3.30 .00/ 12.00 RN/L = ALPHAO - 10.000 CSL CLN CD CLH CY CBL CYN CL ÐΖ CN CA -.00354 .00045 .03381 -.00191 -.00366 -.00019 .37412 .08435 .000 .20308 .01811 -.00347 -.00016 .38491 .06559 -.00344 .00045 -.00151 .02706 3.000 .39393 .01745 -.00012 -.00336 .00047 -.00339 .39932 .08791 .02272 -.08114 7.500 .40753 .01740 .00052 .00007 .41894 .09131 -.00308 .42343 .01718 .01655 -.00099 -.00314 15.000 .450EB .09620 -.00281 .00072

.01645

.01623

.01672

-.000009

.96072

.48136

.49938

.00324

30.000

45.000

60.000

GRADIENT

.01342

.01034

.00728

-.00[44

.00010

.00046

.00108

.00010

-.80270

-.00295

-.00332

.00003

.00026

.00003

.00001

-.00014

.05962

.10318

.00048

.47122

.46959

.00321

-.00290

-.00329

.000004

.00054

.00044

TABULATED SOURCE DATA - CA20

PAGE 729 (NGN130) ( 11 MAR 75 ) ATAC NUTUENO CA2D 747/1 02 SI PARAMETRIC DATA REFERENCE DATA BETAC -ELV-IB -.000 -000 XHRP = 1109,0000 IN.XO SREF = 2690.0000 SQ.FT. 5.000 ELEVON = 3.000 ELV-09 = .0088 IN.YO YHRP LREF = 474.8100 IN. BETAO -.000 MACH -600 375.0000 IN.ZO 936.6800 IN. ZHRP . GREF = .003 .000 DY PHI SCALE = .0300 4.009 10.000 ALPHAC = DΧ .00/ 12.00 GRADIENT INTERVAL -3.31 ALPHA0 = 14.000 CLN CD CSL CBL CYN CL CLH CY CA DZ CN .15173 -.00232 .00206 .61556 -.00255 -.00275 .60143 .04963 .000 .63398 -.00169 -.00152 .00199 .15161 .00155 .61734 .04671 -.00278 -.00195 -.00225 3.000 .63568 .00185 -.00058 .00166 .62359 .15415 -.00307 -.00101 .04272 -.00129 7.500 .64236 .16003 .00010 .00159 .63782 -.00269 -.00029 .00157 .00098 .03738 .65759 15.000 -.00049 .00127 . t6893 -.00011 -.00079 .00111 .68050 .03104 .00412 .69175 30.000 .67600 .17485 -.00096 .00164 -.00118 .00078 .08031 .02694 .69923 .00613 45,000 .17792 -.00117 .00116 .68619 .00064 .02369 .00135 -.08142 .00663 60.000 .70885 .00034 .00023 -.00003 -.00007 .00023 .00003 .00110 -.00092 .00807 .00115 GRADIENT (NGN131) ( 11 MAR 75 ) ORBITER DATA 747/1 12 50 CYSO PARAMETRIC DATA REFERENCE DATA .000 .000 ELV-18 = BETAC = XHRP # |109.0000 1N.X0 SREF = 2690.0000 SQ.FT. ELEVON = 5.000 ELV-08 = 3.000 .0000 IN.YO YMRP = 474.B100 IN. LREF = .000 MACH .600 EETAD -ZMRP = 375.0000 IN.ZO 936.6890 IN. BREF = .000 DY .000 PHI SCALE = .0300 4.000 20.000 ALPHAC = DX .00/ 12.00 RN/L = 3.29 GRADIENT INTERVAL = ALPHAO = 10.00D CLN CD CSL CYN CL CLH CY CBL DZ CN CA .00931 .08504 -.00302 -.00342 -.00303 -.00022 .35548 .02579 .36583 .02184 .000 .08504 -.00276 .00040 .36957 -.00279 -.08009 -.00318 .37890 .02055 .01980 3.000 .00047 .09795 -.00268 -.08080 .39526 .01589 -.00349 -.0v272 .01973 7.500 .39468 -.00255 .00059 -.00289 .00013 .40832 .09080 .01285 -.00262 .01852 15.000 .41789 .09514 -.00245 .00069 .44252 .00025 .08963 -.00131 -.00254 .45249 .01764 30.000 .00042 .09946 -.00244 -.00001 .46491 -.00129 -.00248 .01722 .00921 .47512 45.000 .00007

-.00038

.08003

-.00261

.00004

.00747

-.00128

.01699

-.00027

.49446

.00382

60.000

GRADIENT

-.00050

-.00001

.48400

.00381

.10259

.00039

-.00254

100004

			CARG	747/1	02 91		ORBITER DAT	A	(NGN1)	31) / 11 6	AR 75 )
									*******		
	REFEREN	CE DATA							PARAMETRI	C DATA	
SREF =	2390.0000 SQ.	<b>e</b>		000 111 1/0							
LREF =	474.0100 IN.			0X.NI 000				ESTAC =	.000	ELV-IB =	.000
				888 IN.YO				ELV-08 =	3.000	ELEYON =	5.000
	936.68CO IN.	. ZMRP	- 375.6	080 IN. <b>20</b>				MACH =	.690	EETAO =	.000
SCALE =	.0380							PHI =	.000	DY =	.000
								DX =	20.000	ALPHAC =	4.000
			Pag. 44								
			RN/L =	3.30	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO	= 14.000										
ALI IME	DZ	CN	CA	CLH	CY	CBL	ėw.	~			
	.000	.61045	60222	.64303	00435	-	CAN	CL	CD	CEL	CTM
	3.000	.61519	00354		•	00336	.00095	.59285	. 14553	00303	.00174
	7.580			.64682	00408	00304	.00103	.59777	. 14539	00270	.00174
		.62677	00226	.03692	08415	00227	.00131	.60984	.14885	00189	.00165
	15.000	.64615	00065	.03258	00477	00091	.00178	.62712	.15569	00846	.00155
	30.000	.67781	.00173	.02744	00350	.02025	.00167	.65725	.16566	.00065	.80155
	45.000	. 69375	.00569	.02465	00085	00146	.00847	.67177	. 17335	00130	.00081
	60.000	.78465	.00728	.02278	.00069	00203	.00040	.62216	. 17757	00168	.000EB
	GRADIENT	19900.	00007	00092	.00002	.00015	.00805	.00216	.00947	-00015	.00001
										1000.0	100001
			CARD	747/1	D2 S1		ORBITER DATA	•	(NGN13	2) (11 M	UR 75 )
	CEECEN	C D. 74	CASB	747/1	02 51		ORBITER DATA				UR 75 )
	REFERENC	E DATA	CARD	747/1	<b>6</b> 2 <b>5</b> 1		ORBITER DATA		(NGN13 PARAMETRIC		NR 75 )
SRFF a				-	02 SI		ORBITER DATA		PARAMETRIC	DATA	-
SREF =	2690.0000 50.	FT. XHRP	= 1169.0C	103 IN.XO	0 <del>2</del> 51		ORBITER DATA	DETAC =	PARAMETRIC	DATA	-000
LREF =	2690.0000 SQ.4	FT. XHRP YKRP	= 1169.00 = .00	0X.NI 680 0Y.NI 680	02 51		ORBITER DATA	BETAC = ELV-0B =	PARAMETRIC .000 3.000	ELV-IB = ELEVCN =	.000 5.003
lref = Bref =	2690.0000 50.4 479.8100 IN. 935.6800 IN.	FT. XHRP	= 1169.00 = .00	103 IN.XO	02 51		ORBITER DATA	BETAC = ELV-0B = MACH =	PARAMETRIC	DATA	-000
LREF =	2690.0000 SQ.4	FT. XHRP YKRP	= 1169.00 = .00	0X.NI 680 0Y.NI 680	02 SI		ORBITER DATA	BETAC = ELV-0B =	PARAMETRIC .000 3.000	ELV-IB = ELEVCN =	.000 5.003
lref = Bref =	2690.0000 50.4 479.8100 IN. 935.6800 IN.	FT. XHRP YKRP	= 1169.00 = .00	0X.NI 680 0Y.NI 680	02 SI		ORBITER DATA	BETAC = ELV-0B = MACH =	PARAMETRIC .000 3.000 .600	ELV-IB = ELEVCN = EETAO =	.000 5.003 .000
lref = Bref =	2690.0000 50.4 479.8100 IN. 935.6800 IN.	FT. XHRP YKRP	= 1169.00 = .00 = 375.00	009 IN.XO 109 IN.YO 100 IN.ZO			ORBITER DATA	BETAC = ELV-OB = MACH = PHI =	.000 3.000 .600 .000	ELV-IB = ELEVCN = BETAO = DY =	.000 :000.e .000
lref = Bref =	2690.0000 50.4 479.8100 IN. 935.6800 IN.	FT. XHRP YKRP	= 1169.00 = .00	009 IN.XO 109 IN.YO 100 IN.ZO	02 SI GRADIENT INT		007 12.00	BETAC = ELV-OB = MACH = PHI =	.000 3.000 .600 .000	ELV-IB = ELEVCN = BETAO = DY =	.000 :000.e .000
LREF = BREF = SCALE =	2690.0000 SQ.( 479.8100 IN. 938.6800 IN. .0300	FT. XHRP YKRP	= 1169.00 = .00 = 375.00	009 IN.XO 109 IN.YO 100 IN.ZO				BETAC = ELV-OB = MACH = PHI =	.000 3.000 .600 .000	ELV-IB = ELEVCN = BETAO = DY =	.000 :000.e .000
lref = Bref =	2690.0080 50.0 479.8100 IN. 935.6800 IN. .0300	FT. XHRP YKSP ZHRP	= 1109.00 = .00 = 375.00	3.29	GRADIENT INT	erval •	00/ 12.00	BETAC = ELV-OB = MACH = PHI = DX =	.000 3.000 .600 .000 .000	ELV-IB = ELEVCN = BETAO = DY =	.000 :000.e .000
LREF = BREF = SCALE =	2690.0080 SQ.( 479.8100 IN. 936.6800 IN0300	FT. XHRP YKRP ZHRP	= 1109.00 = .00 = 375.00 RN/L =	3.29	GRADIENT INT	ERVAL • CBL	.,007 12.00 CYN	BETAC = ELV-OB = MACH = PHI =	.000 3.000 .600 .000	ELV-IB = ELEVCN = BETAO = DY =	.000 5.003 .000
LREF = BREF = SCALE =	2690.0080 50.6 479.8100 IN. 936.6600 IN0300  10.000 DZ .000	FT. XHRP YMRP ZHRP CN .24237	= 1169.00 = .00 = 375.00 RN/L = CA .02714	3.29 CLM	GRADIENT INT	erval •	00/ 12.00	BETAC = ELV-OB = MACH = PHI = DX =	.000 3.000 .600 .000 .000	ELV-IB = ELEVEN = BETAO = DY = ALPHAC =	.000 5.000 .000 .000 8.000
LREF = BREF = SCALE =	2690.0080 50.6 479.8100 IN. 936.6800 IN0300  10.000 DZ .000 3.000	FT. XHRP YMRP ZMRP CN .24237 .26473	= 1109.00 = .00 = 375.00 RN/L =	3.29 CLM .03726	GRADIENT INT	ERVAL • CBL	.,007 12.00 CYN	BETAC = ELV-OB = MACH = PHI = DX =	.000 3.000 .600 .000 .000	ELV-IB = ELEVEN = ELEVEN = DY = ALPHAC =	.000 5.000 .000 .000 8.000
LREF = BREF = SCALE =	2690.0080 50.6 479.8100 IN. 936.6600 IN0300  10.000 DZ .000	FT. XHRP YMRP ZMRP CN .24237 .26473 .82290	= 1169.00 = .00 = 375.00 RN/L = CA .02714	3.29 CLM	GRADIENT INT CY 00210	ERVAL = CBL 00914	007 12.00 CYN .00017	BETAC = ELV-OB = MACH = PH1 = DX =	.000 3.000 .600 .000 .000 .000	ELV-IB = ELEVEN = ELE	.000 5.000 .000 .000 8.000 CLN .00099
LREF = BREF = SCALE =	2690.0080 50.6 479.8100 IN. 936.6800 IN0300  10.000 DZ .000 3.000	FT. XHRP YMRP ZMRP CN .24237 .26473	= 1169.00 = .00 = 375.00 RN/L = CA .02714 .02612	3.29 CLM .03726	GRADIENT INT CY 00210 00157	CBL 00919 00379	CYN .00017 .00006 ~.00000	BETAC = ELV-OB = HACH = PHI = DX =  CL .23357 .25617 .28487	.000 3.000 .600 .000 .000	ELV-IB = ELEVEN = ELEVEN = ELEVEN = ELEVEN = ELEVEN = ELEVEN = OY = ALPHAC = CSL0040500350	.000 5.000 .000 8.000 8.000 CLN .00089 .00072
LREF = BREF = SCALE =	2690.0080 50.6 479.8100 IN. 936.6800 IN0300  10.000 02 .000 3.000 7.500	FT. XHRP YMRP ZMRP CN .24237 .26473 .22290 .333322	= 1109.00 = .00 = .375.00 RN/L = CA .02714 .02612 .02524 .02420	000 IN.XO 000 IN.YO 000 IN.ZO 3.29 CLM .03726 .03346 .02987	GRADIENT INT  CY00210001570011300101	CPL00914003790035500326	CYN .00017 .00005 ~.00000 .00008	BETAC = ELV-0B = MACH = PHI = DX = CL .23357 .25617 .28467 .38465	.000 3.000 .600 .000 .000	ELV-IB = ELEVEN = ELEVEN = ELEVEN = ELEVEN = ELEVEN = ELEVEN = CSL	.000 5.000 .000 8.000 8.000 CLN .00089 .00052 .00065
LREF = BREF = SCALE =	2690.0000 SQ.( 479.8100 IN. 935.6600 IN0360  10.000  DZ .000 3.008 7.600 15.000 50.000	FT. XHRP YKRP ZHRP CN .24237 .26473 .22290 .33322 .39211	= 1109.00 = .00 = .275.00 RN/L = CA .02714 .02612 .02524 .02420 .02192	000 IN.XO 000 IN.YO 000 IN.ZO 3.29 CLM .03726 .03346 .02987 .02500	GRADIENT INT  CY0021000157001130010100024)	CBL0091400379003550032600305	CYN .00017 .00006 ~.00008 .00008 .00009	BETAC = ELV-0B = HACH = DX = DX = CL .23397 .25617 .28405 .58234	.000 3.000 .600 .000 .000 .000	ELV-IB = ELEVEN = ELE	.000 5.000 .000 8.000 CLN .00099 .00072 .00055 .00055
LREF = BREF = SCALE =	2690.0000 50.479.8100 IN. 935.6600 IN0300  10.000  DZ .000 3.000 7.500 16.000 50.000 45.000	FT. XHRP YKRP ZHRP CN .24237 .26473 .22290 .33332 .39211 .92971	= 1109.00 = .00 = .375.00 GN/L = CA .02714 .02612 .02524 .02420 .02192 .02192 .02079	000 IN.XO 000 IN.YO 000 IN.ZO 3.29 CLM .03726 .03346 .02987 .02500 .01923	GRADIENT INT  CY00210001570010100101 .00029	CBL004140037900355003260030600322	CYN .00017 .00005 ~.00008 .00008 .00009 ~.00014	BETAC = ELV-0B = MACH = PHI = DX = CL .23357 .25617 .28405 .52234 .41557	.000 3.000 .600 .000 .000 .000	ELV-IB = ELEVEN = UETAO = OY = ALPHAC = CSL0040500350003200032000320	.000 5.000 .000 8.000 8.000 CLN .00089 .00072 .00052 .00052
LREF = BREF = SCALE =	2690.0080 50.479.8100 IN. 935.6800 IN0300  10.000  DZ .000 3.008 7.500 15.000 50.000	CN .24237 .26473 .2220 .33322 .32211 .46190	= 1109.00 = .00 = .375.00 GN/L = CA .02714 .02612 .02524 .02420 .02192 .02079	000 IN.XO 000 IN.YO 000 IN.ZO 3.29  CLM .03726 .03346 .02987 .02500 .01923 .01440 .00943	GRADIENT INT  CY00210001570010100029006900155	CBL0091900355003260032200312	CYN .08017 .08086 ~08080 .0008 .0008 .000900014	BETAC = ELV-OB = MACH = PHI = DX = CL .23357 .25617 .28407 .32405 .52234 .41557 .45135	CD .05592 .05509 .05509 .10025	ELV-IB = ELEVEN = UETAO = UETAO = OY = ALPHAC = CSL00405003720032000320003200032000320003200032000320	.000 5.000 .000 8.000 8.000 6.0009 .0009 .00052 .00052 .00052 .00042
LREF = BREF = SCALE =	2690.0000 50.479.8100 IN. 935.6600 IN0300  10.000  DZ .000 3.000 7.500 16.000 50.000 45.000	FT. XHRP YKRP ZHRP CN .24237 .26473 .22290 .33332 .39211 .92971	= 1109.00 = .00 = .375.00 GN/L = CA .02714 .02612 .02524 .02420 .02192 .02192 .02079	000 IN.XO 000 IN.YO 000 IN.ZO 3.29 CLM .03726 .03346 .02987 .02500 .01923	GRADIENT INT  CY00210001570010100101 .00029	CBL004140037900355003260030600322	CYN .00017 .00005 ~.00008 .00008 .00009 ~.00014	BETAC = ELV-0B = MACH = PHI = DX = CL .23357 .25617 .28405 .52234 .41557	.000 3.000 .600 .000 .000 .000	ELV-IB = ELEVEN = UETAO = OY = ALPHAC = CSL0040500350003200032000320	.000 5.000 .000 8.000 8.000 CLN .00089 .00072 .00052 .00052

TABULATED SOURCE DATA - CA20

ORBITER DATA

			CYSO	747/1	02 SI	(	ORBITER DATA		INGN13	8) (11 HA	R 75 1
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = LRET = BREF = SCALE =	2690.0000 SQ.F 474.8100 IN. 936.6800 IN.	T. XHRP YHRP ZHRP	00	00 1K.XO 00 1K.YO 00 1K.ZO				BETAC = ELV-08 = MACH = PHI = DX =	.000 3.000 000 000 000	ELV-18 = ELEVON = EETAO = OY = ALPHAC =	.000. 5.000 .000 .000 9.000
			RN/L =	3.28	GRADIENT INT	ERVAL =	.00/ 12.09				
ALPHAO	- 14.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	ĆĐ	CSL	CLN
	.080	.4997B	.00517	.06584	00188	00440	.00077	.48368	. 12592	66468	.00:81
	3.000	.51772	.00434	.05845	00194	09387	.00091	.50129	.12946	00354	.00183
	7.500	.54040	.00437	.05236	00212	00355	.00114	.52329	. 13497	00317	.00197
	15.000	.57115	.00390	.04690	00250	00230	.00147	.55327	. 14185	00187	.00199
		.62397	.00555	.03786	00108	00119	.00173	.60437	. 15523	00073	.00197
	30.000		.80514	.03177	00107	00077	.00152	.63471	.16355	00038	.00165
	45.000	.65543		.02665	.00040	00046	.00182	.65724	. 16951	00001	.00187
	60.000	.67875	.00557			.00011	.00005	.08525	.00121	.00012	.00002
	GRADIENT	.06539	60010	00176	00003	.66611	.00000	.00553	.03161	100012	.00001
			CA28	747/1	02 SI		CRBITER DATA		(NEN13	13) (II W	UR 75 )
	REFERENCE	E DATA	CA28	747/1	02 51		CRBITER DATA		(NGN13		IR 75 )
					02 51		CRBLTER DATA		PARAMETR 10	DATA	.000
SREF =	2690.0000 50.6	FT. XMER	- 1169.00	100 IN.XO	03 SI		CRBITER DATA	BETAC -	PARAMETRIC	DATA	-000
LREF =	2690.0000 SQ.I	FT. XPERP YHRP	= 1109.00 = .00	000 IN.XO 007.NI 001	03 SI		CRBITER DATA	BETAC = ELV-08 =	PARAMETRIC .080 3.000	ELV-IB = ELEVON =	.000 5.000
LREF =	2690.0000 50.6 474.8100 IN. 936.5800 IN.	FT. XMER	= 1109.00 = .00	100 IN.XO	03 SI		CRBITER DATA	BETAC = ELV-09 = MACH =	.000 3.000 .600	ELV-IB = ELEVON = BETAO =	.000 5.000 .000
LREF =	2690.0000 SQ.I	FT. XPERP YHRP	= 1109.00 = .00	000 IN.XO 007.NI 001	02 SI		CRBITER DATA	BETAC = ELV-08 =	PARAMETRIC .080 3.000	ELV-IB = ELEVON =	.000 5.000
LREF =	2690.0000 50.6 474.8100 IN. 936.5800 IN.	FT. XPERP YHRP	= 1109.00 = .00	000 IN.XO 007.NI 001	02 SI		.00/ 12.00	BETAC = ELV-0B = MACH = PHI =	.000 3.000 .600 .600	ELV-IB = ELEVON = EETAO = DY =	.000 5.000 .000
LREF =	2690.0000 SQ.I 474.8100 IN. 936.5800 IN. .0300	FT. XPERP YHRP	- 1109.00 00 - 375.00	000 IN.XO 000 IN.YO 000 IN.ZO 3.32	GRADIENT INT	ERVAL =	.00/ 12.09	BETAC = ELV-0B = MACH = PHI = OX =	.000 3.000 .600 .000 .000	ELV-IB = ELEVON = GETAO = DY = ALPHAC =	.000 5.000 .000 .000 8.000
LREF = BREF = SCALE =	2690.0000 SQ.I 474.8100 IN. 936.5800 IN. .0300	FT. XPERP YHRP	- 1109.00 00 - 375.00	000 IN.XO 100 IN.YO 100 IN.ZO		TERVAL =	.00/ 12.09 CYN	BETAC = ELV-0B = MACH = PHI = DX =	.000 3.000 .600 .000 10.000	ELV-IB = ELEVON = EETAO = DY = ALPHAC =	.000 5.000 .000 .000 8.000
LREF = BREF = SCALE =	2690.0000 SQ.I 474.8100 IN. 936.5800 IN. .0300	FT. XPGP YHERP ZHERP	= 1109.00 = .00 = 375.00 RN/L =	000 IN.XO 000 IN.YO 000 IN.ZO 3.32	GRADIENT INT	COL 00384	.00/ 12.00 MY2 00016	BETAC = ELV-0B = MACH = PHI = OX =	.080 3.000 .600 .000 10.000	ELV-IB = ELEVON = EETAO = DY = ALPHAC = CSL00380	.000 5.000 .000 .000 8.000 CLN .00051
LREF = BREF = SCALE =	2690.0000 SQ.I 474.8100 IN. 936.5800 IN. .0300	FT. XMGRP YHRP ZHRP	= 1109.00 = .00 = 375.00 RN/L =	006 IN.XO 000 IN.YO 100 IN.ZO 3.32	GRADIENT INT	TERVAL =	.00/ 12.09 CYN	BETAC = ELV-0B = MACH = PHI = DX = CL .21232 .23345	.080 3.000 .600 .000 10.000	ELV-IB = ELEVON = BETAO = DY = ALPHAC = CSL0032000351	.000 5.000 .000 .000 8.000 CLN .00051
LREF = BREF = SCALE =	2690.0000 SQ.6 474.8100 IN. 936.5800 IN. .0300	TT. XMAP YHRP ZHRP CN .22076	- 1109.00 00 - 375.00 RN/L -	3.32 CLM .02271	GRADIENT INT CY 00248	COL 00384	.00/ 12.00 MY2 00016	BETAC = ELV-0B = MACH = PHI = DX = CL .21232 .23345 .26128	.000 3.000 .600 .000 10.000	ELV-IB = ELEVON = GETAO = ALPHAC = CSL003800035100325	.000 5.000 .000 .000 8.000 CLN .0005t .00050
LREF = BREF = SCALE =	2690.0000 SQ.I 474.8100 IN. 936.5800 IN. .0300 - 10.000 DZ .000 3.000 7.500	TT. XPGP YHRP ZHRP CN .22076 .24202 .27007	- 1109.00 00 - 375.00 RN/L - CA .02932 .02818	000 IN.XO 000 IN.YO 000 IN.ZO 3.32 CLM .02271 .01979	GRADIENT INT CY 00248 00251	COL 00384 00354	.00/ 12.00 0016 00012	BETAC = ELV-0B = MACH = PHI = DX = CL .21232 .23345	.080 3.000 .600 .000 10.000	ELV-IB = ELEVON = BETAO = DY = ALPHAC = CSL0032000351	.000 5.000 .000 .000 8.000 CLN .0005t .00050
LREF = BREF = SCALE =	2690.0000 SQ.I 474.8100 IN. 936.5800 IN. .0300 - 10.000 DZ .000 3.000 7.500 15.000	CN .22076 .24202 .27007 .31293	= 1109.00 = .00 = 375.00 RN/L = CA .02932 .02818 .02699	3.32 CLM .02271 .01979 .01767	GRADIENT INT CY 00248 00221 00183	COL 00384 00359 00329	.00/ 12.00 CYN 00016 00012 00009	BETAC = ELV-0B = MACH = PHI = DX = CL .21232 .23345 .26128	.000 3.000 .600 .000 10.000	ELV-IB = ELEVON = GETAO = ALPHAC = CSL003800035100325	.000 5.000 .000 .000 8.000 CLN .0005t .00050
LREF = BREF = SCALE =	2690.0000 SQ.I 474.8100 IN. 936.5800 IN. .0300 - 10.000 DZ .000 3.000 7.500 15.000 30.000	CN .22076 .24202 .27007 .31293 .37864	= 1109.00 = .00 = 375.00 RN/L = CA .02932 .02699 .02521 .02265	3.32 CLM .02271 .01767 .01533	CY00248002210018300148	COL 00384 00354 00329 90290	.00/ 12.00 AY2 00012 00009 00002	BETAC = ELV-0B = MACH = PHI = OX = CL .21232 .23345 .26128 .30380	.000 3.000 .600 .000 10.000 CD .06721 .06978 .07348	ELV-IB = ELEVON = ELEVON = ELEVON = ALPHAC = CSL00380003510032500286	.000 5.000 .000 .000 8.000 CLN .0005t .00050
LREF = BREF = SCALE =	2690.0000 SQ.I 474.8100 IN. 936.5800 IN. .0300 - 10.000 DZ .000 3.000 7.590 15.000 30.000 45.000	CN .22076 .24202 .27007 .31293 .37864 .42081	= 1109.00 = .00 = 375.00 RN/L = CA .02932 .02818 .02699 .02521 .02265 .02128	000 IN.XO 100 IN.YO 100 IN.ZO 3.32 CLM .02271 .01979 .01533 .01263	GRADIENT INT  CY002480022100183001480803200053	COL 00384 00354 00329 00329	.00/ 12.00 CYN 00016 00012 00009 00002 .00007	BETAC = ELV-0B = MACH = PHI = DX = CL .21232 .23345 .26128 .30380 .36895	.000 3.000 .600 .000 10.000 CD .06721 .06978 .07348 .07917	ELV-IB = ELEVON = ELEVON = BETAO = DY = ALPHAC = CSL00380003510028600268	.000 5.000 .000 .000 8.000 CLN .00051 .00050 .00049
LREF = BREF = SCALE =	2690.0000 SQ.I 474.8100 IN. 936.5800 IN. .0300 - 10.000 DZ .000 3.000 7.500 15.000 30.000	CN .22076 .24202 .27007 .31293 .37864	= 1109.00 = .00 = 375.00 RN/L = CA .02932 .02699 .02521 .02265	3.32 CLM .02271 .01767 .01533	CY0024800221001830014800032	CBL 00384 00329 00329 30290 30274 00286	.00/ 12.00  CYN00016000120000900002 .0000700012	BETAC = ELV-0B = MACH = PHI = OX = CL .21232 .23345 .26128 .30380 .36895 .41072	.000 3.000 .600 .000 10.000 CD .06721 .06978 .07348 .07917 .06805	ELV-IB = ELEVON = GETAO = DY = ALPHAC = CSL0038000351003860026900287	.000 5.000 .000 .000 8.000 CLN .00051 .00058 .00048 .00059

			CA20	747/1	02 SI		CRBITER DATA		(NGN13	53) (11 H)	IR 75 )
	REFERENC	E DATA							PARAMETRIC	DATA	
SREF = LREF = EREF = SCALE =	2690.0000 SQ.I 474.8100 IN. 938.6900 IN. .0300	FT. XHRP YHRP ZHRP	= .00	00 IN.XO 00 IN.YO 00 IN.ZO				BETAC = ELV-08 = MACH = PHI = DX =	.000 3.000 .600 .000	ELV-IB = ELEVON = EETAO = DY = ALPHAC =	.000 5.000 .000 .000 8.000
			fev/L =	3.30	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO :	= 14.800										
	02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .48234 .48171 .50716 .54609 .60792 .64715 .67284	CA 00617 -00472 -00391 -00236 -00206 -00272 -00355 00029	CLH .64986 .64447 .04089 .03737 .03230 .02799 .02490 00116	CY 00130 00128 00146 00192 00153 00222 00103 00002	CBL 00437 00379 00343 00316 00228 00105 00069	CYN 00002 .00012 .00030 .00078 .00152 .00153 .00203	CL .44712 .46626 .49115 .52930 .58936 .62727 .65199	CD .11784 .12112 .12649 .12440 .14907 .15920 .16523 .00116	CSL 00424 00365 00325 00267 00165 00053 00018	CLN .00103 .00103 .00112 .00152 .00203 .00178 .00213
			CAED	797/1	02 SI	•	CRBITER DATA	1	(NGN13	(11 M	R 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = LREF = EREF = SCALE =	2690.0000 90.F 474.8100 IN. 925.6300 IN. .0300	T. XXECP YVSEP ZMRP	= .000	00.XO 00.XI 00.XI 00.XI				BETAC = ELV-08 = MACH = PHI = DX =	000. 000. 000. 000.	ELV-1B * ELEVON = EETAO * OY * ALPHAC =	.000 5.000 .000 .000 8.000
			RN/L =	3.27	GRADIENT INT	ERVAL =	.09/ 12.00				
1177.AO •	• 10.000 62 .000	CN .21545	CA .03068	3.27 CLM .01131	GRADIENT INT CY 09358	CBL 00308	.09/ 12.00 CYN 00067	CL .20695	CD .06762	651 86315	c 

PAGE 733 DATE 04 DEC 75 TABULATED SOURCE DATA - CA20 CA20 747/1 02 SI ORBITER DATA (NGN134) ( 11 MAR 75 ) PARAMETRIC DATA REFERENCE DATA .000 BETAC = .000 ELV-18 \* 2690.0000 SQ.FT. XITP -1109.0000 IN.XO ELV-0B = 3.000 ELEVON -5,000 .080B IN.YO 474.8100 IN. YHRP = LREF .000 MACH .600 BETAO = ZMRP = 375.0800 IN.ZO BREF = 936.6800 IN. 1H9 .000 DY .000 SCALE ~ .0300 R.OOD ĐΧ 20.000 ALPHAC = GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.29ALPHAO = 19.000CLN CEL CL CD CSL CA ÇLH CY CYN ĐΖ CH .00054 -.00311 -.00387 -.00849 .43450 .11562 -.00386 .00707 .03481 .080 .44956 -.00025 .45500 .11920 -.00330 .00057 .00559 .02994 -.00297 -.00334 3.000 .47032 -.00293 -.00003 .47819 . 12351 -.00285 .0005B -.00286 .49397 .60416 .02859 7,500 -.00216 .00092 .02737 -.00302 -.00232 .00037 .51679 .13147 15.080 .53324 .00254 .02652 -.00290 -.00285 .00123 .57861 .14511 -.00248 .00189 .00082 30.000 .59653 -.00162 .15601 -.00124 .00176 -.00313 .00141 .62128 45.000 .64056 .00107 .02407 -.00012 .00244 .16245 60.000 .66593 .80117 .02319 -.00256 -.00071 .00234 .64674 .00104 .00013 .00002 .00585 -,00038 -.00079 .00003 \$1000. .00005 .00577 GRADIENT ORBITER DATA (NGN135) ( 11 HAR 75 ) 02 51 CYSO 747/1 PARAMETRIC DATA REFERENCE DATA ALPHAC = -5.000 XHRP = 1109.0000 IN.XO 4.000 EETAC = 2690.0000 SQ.FT. ELV-IB = .000 ELV-09 = 3.000 .0000 IN.YO YHRP = 474.8100 IN. ELEVON = 5.000 MACH .600 375.0000 IN.ZO BREF = 936.6800 IN. ZHRP = BETAO = .000 PHI .000 SCALE = .0300 10.000 DΧ .000 GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.27 RUN NO. 0/ 0 CSL CLN CA CLH CY CBL CYN CL CD **ALPHAD** CN .45779 .10291 -.00493 -.00092 -.00177 .02185 .03602 -.00650 -.00470 .099 .46870 10.000 -.00057 -.08477 -.00675 -.08460 -.60139 .46055 .1027B 10.000 3.000 .47140 .02125 .03280 .03036 -.00585 -.00442 - 1008B .46592 .10328 -.03451 -.00010 .02083 10.000 7.500 .47869 .47684 .10497 -.08411 .00041 -.00409 -.08412 -.00031 10.000 15.000 .48782 .02059 .02697 .10857 -.00356 .00123 .49691 10.000 39.000 .50822 .02063 .02138 -.00090 -.00372 .00059 .51200 .11139 -.00339 .00127 45.000 .52355 .02078 .01655 .00095 -.00355 .00056 10.000 -.00318 .00139 .53979 .02099 .01192 .00277 -.0033B .00082 .52794 .11441 69.000 10.660

-.00013

.00107

GRADIENT

-.00074

.00010

.00004

.00012

.00108

.00005

.00306

PAGE 734

			CA28	747/1	02 SI	o	RBITER DATA		(NGN13	5) f 11 M	R 75 )
	REFERENC	E DATA							PARAHETRIC	DATA	
	639.0000 50.0 474.8100 IN.	FT. XHRP YHRP		00.NI 001			,	ALPHAC = ELV-1B =	4.800	EETAC =	-5.000 3.000
		ZHRP		00 IN.20				ELEVON -	5.000	MACH =	.600
	936.6800 IN. .0300	2784	- 313.00					BETAD -	.000	PHI -	.000
SCALE =	.0280							DY =	10.000	ר אם	10.000
		RUN NO.	0/ 0	RN/L =	3.26 G	RADIENT INTER	VAL = .0	12.00			
ALFHAO	ĐZ	CN	CA	CLM	CY	CBL	CYN	CL	CD	CSL	CLN
10.000	.000	.03224	.02351	.02794	00599	00350	00155	.42159	.09821	00372	00092
10.000	3.000	.62262	.02254	.02495	00516	00367	00131	.42884	.09336	00394	00066
10.000	7.500	.94738	.02150	.02336	00564	00383	00103	.43695	.09886	00395	00035
10.000	15.000	.48283	.02069	.02124	08411	00394	00041	.45319	.10092	00369	.00026
10,000	39.000	.98951	.02003	.01763	~.08028	00369	.00039	.47859	.10473	00357	.00102
10.000	45.000	.50730	.02035	.01387	.08127	00355	.00057	.49508	.10813	00340	.00118
10.000	69.000	.55447	.02076	.01046	.00217	00341	.00061	.51290	.11152	00325	.00119
10.000	GRADIENT	.00201	00027	00059	.00005	00004	.00807	.09203	.08089	00803	.00007
			CAED	747/1	<b>02</b> St	C	ROITER DATA	A	(NGN13		IR 75 )
	REFERENC	E DAYA							PARAMETRIC		
	· · · · · · · · · · · · · · · · · · ·		= 1109 Rf	nn IN.XA				ALPHAC =	PARAMETRIC	BETAC =	.000
	690.0000 <b>50</b> .	FT. 191RP		00. IN.XO				ALPHAC = ELV-18 =			.000 3.000
LREF .	:890.0000 SQ. 474.0100 IN.	FT. 19982 YMSP	= .00	09. IN.YO				ELV-18 =	4.000	BETAC =	
LREF •	698.0888 <b>50.</b> 474.8109 IN. 926.6909 IN.	FT. 191RP	= .00						4.000 .000	BETAC = ELV-09 =	3.000
LREF .	:890.0000 SQ. 474.0100 IN.	FT. 19982 YMSP	= .00	09. IN.YO				ELV-1B =	4.000 .000 5.000	BETAC = ELV-09 = MACH =	3.000 .600
LREF •	698.0888 <b>50.</b> 474.8109 IN. 926.6909 IN.	FT. 19982 YMSP	= .00 = 375.00	09. IN.YO	3.35 G	RADIENT INTER	RVAL	ELV-18 = ELEVON = BETAO =	4.000 .000 5.000	BETAC = ELV-09 = HACH = FHI =	3.000 .600
LREF = BREF = SCALE =	6890.0000 SQ. 974.8109 IN. 926.6909 IN.	FT. 18962 VHSP ZERP EURI NO.	= .01 = 575.01	080 IN.YO 089 IN.ZO	3.35 G	RADIENT INTER	RVAL	ELV-1B = ELEVON = BETAO = DY =	4.000 .000 5.000	BETAC = ELV-09 = HACH = FHI =	3.000 .600
LREF DESCALE SCALE ALPHAO	6590.0000 SQ. 974.8109 IN. 926.6909 IN. .0300	FY. 1848P YMEP ZEIRP EURI NO.	= .0( = 375.0( 0/ 0	180 IN.YO 180 IN.ZO		CBL	<u>-</u>	ELV-18 = ELEVON = ESTAO = DY = CO/ 12.00	4.000 .000 5.000 .000 10.000	BETAC = ELV-09 = MACH = FHI = DX =	3.000 .600 .000
LREF 0 GREF 0 SCALE = ALPHAO 10.000	6890.0000 SQ. 979.8100 IN. 926.6909 IN. .0300	FY. 18482 YHER ZERP EURI NO. CN .46567	0( - 375.0( 0/ 0 CA .0(883	RN/L =  CLH .04157	CY	CBL 08999	CYN	ELV-18 = ELEVON = EETAO = DY =	4.000 .000 5.000 .000 10.000	BETAC = ELV-09 = HACH = DX =	3.000 .600 .000 .000
LREF 0 GREF 0 SCALE = ALPHAO 10.000	02 .000 .000 .000	FY. 19482 YMRP ZERP FUN NO. CN .46567 .46976	01 - 575.01 0/ 0 CA .01883	RN/L -	00121	CBL 00999 08840	CYN 08266	ELV-18 = ELEVON = EETAO = DY =  CO	4.000 .000 5.000 .000 10.000	BETAC = ELV-08 = HACH = FHI = DX =  CSL01030	3.000 .600 .000 .000 CLN 00089 00069
LREF 0 GREF 0 SCALE = ALPHAO 10.000 10.000	92 .009 3.000 .0300	FT. 19462 YHER ZERP GURL NO. CN .46567 .46976 .47693	01 - 575.00 0/ 0 CA .01893 .01865 .01904	RN/L -  CLH .03684 .03320	00121 CY	CBL 00999 08940 00729	CYN 00266 00217	ELV-18 = ELEVON = ESTAO = DY =  00/ 12.00  CL .45533 .45939	4.000 .000 5.000 .000 10.000 CD .09941 .09995	BETAC = ELV-09 = HACH = FHI = DX = CSL0103000855	3.000 .600 .000 .000 .000 .000 00089 00089 00037
LREF 0 GREF 0 SCALE = ALPHAO 10.000 10.000 10.000	92 .008 3.000 .0500	FT. 19482 YHER ZERP GURL NO. CN .46567 .46976 .47693 .46856	01883 .01855 .01904 .01946	RN/L - CLH .04157 .03684	CY 00121 00245 09272	CBL 00999 00840 00729 00593	CYN 08266 08217 00166	ELV-18 = ELEVON = ESTAO = DY =  CL .45533 .45939 .46638	4.000 .000 5.000 .000 10.000 CD .09941 .09395 .10157	BETAC = ELV-09 = MACH = FHI = DX =  CSL0103000555007460050000451	3.000 .600 .000 .000 .000 .00089 00089 00037 .00011
ALPHAO 10.000 10.000 10.000 10.000	02 .000 .000 .000 .000 .000 .000 .000	FY. 19482 YMED ZEGP EURI NO. CN .46567 .46567 .47693 .40856 .60934	01883 .01855 .01904 .01946 .02009	RN/L =  CLM .04157 .03584 .03320 .02840	CY 00121 00245 00251	CBL 00999 08840 00729 00593 00459	CYN 09266 09217 00166 -,60093	ELV-18 = ELEVON = ESTAO = DY =  CO/ 12.08  CL .45533 .45939 .46638 .47776	4.000 .000 5.000 .000 10.000 CD .09941 .09995 .10157	BETAC = ELV-08 = MACH = FHI = DX =  CSL01030005500746005000045100395	3.000 .680 .000 .000 .000 .000 00089 00037 .00011
ALPHAO 10.000 10.000 10.000 10.000	92 .009 3.000 .050 .000 .000 .000 .000 .000 .00	FY. 1948P YMRP ZERP GUN NO. CN .46567 .46567 .47893 .46856 .50934 .52395	01883 .01883 .01865 .01904 .02009	RN/L =  CLM .04157 .036840 .02179	CY 00121 00245 00272 00251	CBL 00999 00840 00729 00593 00459 00408	CYN 09266 09217 00166 -,60993 .00905	ELV-18 = ELEVON = ESTAO = DY =  CL .45533 .45539 .46639 .47776 .49911	4.000 .000 5.000 .000 10.000 CD .09941 .09995 .10157	BETAC = ELV-09 = MACH = FHI = DX =  CSL0103000555007460050000451	3.000 .600 .000 .000 .000 .00089 00089 00037 .00011 .00084 .00111
ALPHAO 10.000 10.000 10.000 10.000	02 .000 .000 .000 .000 .000 .000 .000	FY. 19482 YMED ZEGP EURI NO. CN .46567 .46567 .47693 .40856 .60934	01883 .01855 .01904 .01946 .02009	RN/L =  CLH .04157 .03684 .03120 .02840 .02179 .01656	CY 00121 00245 00272 00251 00107	CBL00999008900072900593004590040800349	CYN 08266 08217 00166 -,0893 .0805 .08041	ELV-18 = ELEVON = ESTAO = DY =  CO/ 12.00  CL .45533 .45939 .46638 .47776 .49911 .51231	4.000 .000 5.000 .000 10.000 CD .09941 .09995 .10157 .10400 .10823	BETAC = ELV-08 = MACH = FHI = DX =  CSL01030005500746005000045100395	3.000 .680 .000 .000 .000 .000 00089 00037 .00011

PAGE 735 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 (NGN138) ( 11 HAR 75 ) ORBITER DATA CA20 747/1 02 SI PARAMETRIC DATA REFERENCE DATA . nnn 4.000 BETAC = ALPHAC = XMRP = 1169,0000 IN.XO SREE = 2690.0000 SQ.FT. 3,000 FI V-09 = ELV-IB = .000 .0000 IN.YO 474.8100 IN. YMRP = IREE = .600 ELEVON = 5.000 MACH 375.0000 IN.ZO 2H6P = 936.6800 IN. BREF = .000 .000 PHI SETAO -SCALE = .0300 10.000 10.000 אמ .00/ 12.00 RN/L = 3.29 GRADIENT INTERVAL = ms. 60. 0/ 0 CD CSL CLN CYN CL CY COL CN CA CLH ALPHA0 ĐΖ -.00078 .09484 -.00977 .42273 -.00205 -.00349 -.00247 .01999 .03284 .000 .43278 10.600 -.00832 -.00062 -.09286 .42949 .09545 -.00809 .02877 -.00296 .01942 3.000 .43954 10.000 -.00720 -.00041 .09676 .43847 -.00702 ~.00165 .02582 -.00322 .01915 ,44851 10,000 7.500 -.00592 .00801 -.00584 -.00101 .45427 .09952 .01912 .02254 -.00283 :0.000 15,000 .46465 -.00460 .00073 .47953 .10425 -.00008 -.00070 -.00465 .01939 .01783 .49035 30.000 10.000 -.00395 .cotes .10781 -.00408 .00037 .49711 .00077 .01985 .01376 .50828 10.000 45.000 .00115 .11142 -.00340 .00054 .51457 -.00355 .02039 .01041 .00204 .52510 69.000 10.000 .00005 .00034 .00209 .00026 11000. -.00091 -.08015 .00032 .00210 -.00011 GRADIENT (NGN139) ( 11 HAR 75 ) ORBITER DATA CY50 747/1 02 51 PARAMETRIC DATA REFERENCE DATA 5.000 ALPHAC = 4.000 BETAC = 1109.6000 IN.XO SREE = 2698.0000 SQ.FT. XMRP = ELV-CB = 3.000 ELV-IB -.000 .0000 IN.YO YHRP. 474.8100 IN. LREF = .600 5.000 MACH ELEVON = 375.0000 IN.ZO ZHRP = EREF = 936.6900 IN. .000 BETAD -.000 PH! ีนรมิติ SCALE = .000 10.000 DX GRADIENT INTERVAL = .00/ 12.00 RUN NO. 0/ 0 RN/L = 3.25 CLN CD CSL CBL CYN CL CY CA CLH ALPHAO ĐΖ CN -.00155 -.01706 .09831 -.00450 .45491 .05127 -.00274 -.01653 .46507 .01783 .000 16.000 -.01343 -.00126 -.00357 .45945 .09944 -.00310 -.01301 .01814 .04410 3.000 .46974 10.000 -.01031 -.00025 .10196 -.01050 -.00272 .46799 .01905 .03923 -.60396 7.580 .47857 10.000 -.00025 -.00802 .48014 .10410 -.00785 -.00163 .03126 -.00280 .49092 .01914 10.000 15.000 .10869 -.00561 .00057 .50097 -.00159 -.00554 -.00032 .023!3 .51224 .02005 30.000 10,000 -.00429 .00092 .11142 -.00032 -.00439 .00016 .51441 .01707 .02840 45.000 .52594 10.000 .00120

.00055

.00023

-.00314

.00079

.00079

-.00004

.01167

-.00170

.02092

.00017

16 000

60.000

GRADIENT

.54100

.00181

.52915

.00176

-.00258

18000.

.00009

.11454

				747/1	02 51	c	RBITER DATA		INGNIA	9) (11 H.	AR 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SRZF = LREF = BREF = SCALE =	2690.0000 90.F 474.8100 IN. 935.6800 IN. ,0300	T. XHRP VHRP ZHRP	= .80	99 IN.XO 90 IN.YO 90 IN.ZO				ALPHAC = ELV-18 = ELEVON = BSTAO = DY =	4.000 .000 5.000 .000	BETAC = ELV-08 = MACH = FHI = DX =	5.000 3.000 .600 .000
		RUN NO.	0/ 0	RN/L =	3.26 GR	LDIENT INTER	IVAL = .0	10/ 12.00			
ALFHAO 10.000 10.000 10.000 10.000 10.000 10.000 10.000	02 .000 3.000 7.500 15.000 50.000 45.000 60.000 GRADIENT	CN .92653 .42599 .44893 .46552 .9263 .50976 .92614 .80270	CA .01744 .01753 .01810 .01875 .01945 .01939 .02045 .00009	CLH .04242 .03604 .03051 .02517 .01914 .01453 .01041	CY 00344 00354 00317 00289 00121 0006 .00066	C9L 016+0 01317 01058 00799 00554 00453 00353	CYN00:0200323002470016000033 .00017 .00039	CL .41899 .42731 .43897 .46618 .48177 .49855 .51460	CD .09159 .09314 .09576 .09348 .10470 .10811 .11150	CSL 01685 01353 01085 00815 00561 00444 00341	CLN 00112 00090 00090 00019 .00095 .00099 .00097
			CAED	747/1	01 SI	o	RBITER DATA	<b>L</b>	CNGNIH	1) ( 04 HJ	UR 75 )
	REFERENCE	DATA							PARAHETRIC	DATA	
eref =   Lref =   Eref =   ECALE =	2690.0000 SQ.F 474.8100 IN. 935.6900 IN. .0300	T. 1346P YMRP ZHRP	= .60 = 375.00	80 IN.XO 80 IN.YO 80 IN.ZO				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.000 10.000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 13.000 .600 .000
			RN/L =	3.26	GRADIENT INT	ERVAL = -1	.00/ 4.00				
ALPHAO =	10.600 0Z .000 3.000 7.500 15.000 95.000 95.000 60.000	CN .29363 .90743 .92034 .94170 .95396 .93701 .50560 .00960	CA .00297 .00126 .000660014000197002680031400057	CLM .05155 .04049 .03566 .02634 .01937 .01338 .00780 00369	CY00166 00162 00161 00110 00056 00017 .00029	CBL 00247 00224 00212 00197 00193 00203 00208	CYN00104001090009100063000140004700062 .00002	CL .38714 .40102 .41384 .43324 .46218 .48008 .49345	CD .07128 .07159 .07355 .07552 .07949 .08193 .06469	CSL 00261 00239 00265 00195 00192 00203	CLN 00050 00059 00053 00019 00011 00023 .00000

<del>-</del>---

PAGE 737

DATE 04 DEC 75	TABULA	TED SOURCE	DATA - CA	50					PAGE 757			
		CY50	747/1	O1 S1	ď	ORBITER DATA		(1468)14	1) ( 04 MA	R 75 )		
REFERENC	E DATA							PARAMETRIC	DATA			
SREF = 2690.0000 SQ. LREF = 474.8100 IN.	FT. XHRP YHRP		00 IN.XO				ALPHAC = ELV-1B =	4.000 10.000	BETAC = ELV-08 =	.000 13.000		
BREF - 936.6800 IN.	ZHRP	-	00 IN.ZO			•	ELEVON =	5.000	HACH =	.600		
SCALE = .0300			•				BETAO -	.000	PHI *	.080		
							0x =	.000	0Y =	.080		
		RN/L =	3.20	GRADIENT INT	ERVAL = -	1.00/ 4.00						
ALPHA0 = 14.000					_		_		**	C1.11		
OZ	CH	CY	CLH	CY	CBL	CYN	CL .62738	CD .14780	CSL 00186	CLN .00040		
.000.	.64450	00837	.07725	00261	00190	00005 00037	.63803	.14601	03148	00001		
3.000	.65440	01268	.05998	00194	00143 00133	00037	.64594	.14713	00137	00000		
7.500	.66235	01351	.05070	00202		00003	.65736	.15070	00107	-00029		
15.000	.67429	01291	.84048	00169	00111 00120	.03808	.67791	.15927	00115	.00037		
30.000	.69558	01237	.02972	00052 .00014	00170	00010	.68974	. 15974	00167	.00032		
45.000	.70790	01186	.02300	.00079	+.00220	00024	.70175	.16328	00220	.00030		
60.000 GRADIENT	.72040 .00330	01134 00144	.01634 00576	.00022	.00016	00010	.00355	00060	.00013	80014		
<b>5.1.2.1.2</b> .1		CASB	747/1	01 SI	1	ORBITER DATA		110003	2) (04 H/	JR 75 i		
REFERENC	E DATA							PARAMETRIC	DATA			
	FT. XHRP	= 1109.00	00 IN.XO				ALPHAC =	4.000	BETAC =	.080		
SREF = 2690.0000 50.			80 IN.YO				ELV-IB =	-10.000	ELV-03 =	-7.000		
LREF = 474.8100 IN.			00 IN.ZO				ELEVON =	5.000	MACH =	.600		
<b></b>	Zrati	- 375.00	100 111120				= OAT39	.000	PH! =	.000		
SCALE = .0300							<b>-</b> xa	.000	DY -	.000		
		RN/L =	3.27	GRADIENT INT	ERVAL = -	1.80/ 4.60						
ALPHAO = 10.008										•		
ÐZ	CN	CA	CLH	CY	CBL	CYN	CL	CD	CSL	CLN		
.080	.38390	.00236	.05434	00168	00261	00112	.37756	.06899	00277	00065		
3.000	.39885	.00019	.04243	00159	00235	00104	.39275	.06945	00250	00051 00043		
7.500	.41330	00092	.03627	00199	00211	00081	.40718	.07086	00222 00190	00031		
				00135	_ 00101	00064	.42545	.07357	=			
15.000	.43275	00160	.02898		00181			Married Ave.		nnnes		
15.000 30.600	.46346	00270	.02039	00068	00178	00010	.45699	.07782	00177	.00021		
30.660 45.600	.46346 .48168	00270 00273	.02030 .01452	00068 08042	00178 0020B	00010 00048	.45699 .47483	.02095	001 <b>77</b> 00213	00011		
30.600	.46346	00270	.02039	00068	00178	00010	.45699		00177			

			CA20	747/1	01 51		ORBITER DAT	A	CNGNI	12) ( 04 H	IAR 75 }
REFERENCE DATA									PARAHETRI(	DATA	
SREF = LREF = EREF = ECALE =	2690.0800 SQ.F 474.8100 IN. 936.6800 IN. .0300	FT. XHRP YMRP ZMRP	<b>=</b> .01	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-18 = ELEVON = ESTAD = OX =	4.000 -10.000 5.000 .000	BETAC = ELV-09 = MACH = PHI = DY =	.009 -7.000 .600 .600
			RN/L =	3.23	GRADIENT IN	TERVAL = -	1.00/ 4.60				
ALPHAO =	14.000										
	0Z .000 3.600 7.500 15.080 30.000 45.000 60.000 GRADIENT	CN .62579 .63465 .64342 .65690 .67936 .69423 .70663 .00295	CA 00893 01168 01313 01305 01242 01192 01157 00105	CLM .08235 .06567 .05406 .04344 .03118 .02438 .01760	CY 00382 00317 00243 00169 00032 .00001 .00026	CBL 00145 00111 00126 00141 00142 00161 00179	CYN .00045 .00020 00004 00015 .00002 00016 00031 00009	CL .60927 .61862 .62748 .64054 .66276 .67649 .69037	CD .14312 .14220 .14291 .14626 .15244 .15638 .16021	CSL 00130 00103 00123 00141 00158 00160 00161	CLN .00079 .00046 .00027 .00020 .00029 .00024 .00013
			CAEO	747/1	01 SI	C	RBITER DATA		(NGN14	3) (04 H	UR 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 8 BREF = SCALE =	2590.0000 SQ.F 474.8100 IN. 926.6800 IN. .0300	7. 1056 YMAP ZMAP	= .08	80 IN.XO 80 IN.YO 80 IN.ZO	GRADIENT INT	erval = -1	-00/ 4.00	ALPHAC = RUD-U = ELEVON = EETAO = DX =	4.080 15.000 5.000 .000	BETAC = RUD-L = AILRON = PHI = DY =	.020 15.000 .000 .000
ALFHAD =	10.000										
	92 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .39116 .46869 .91719 .42869 .46599 .46285 .50178	CA .00243 .00034 .00015 00055 00224 00243 00289 00070	CLH .05282 .04062 .03637 .02888 .01923 .01415 .00842	CY 00053 00046 00061 00007 00007 .00013 .00021 .00002	CBL 00297 00267 00260 00217 00180 00221 00246 .00010	CYN00123001130008500085000300003200017 .00003	CL .39479 .39946 .41082 .43013 .46028 .47604 .49466 .00489	CD .07032 .07078 .07259 .07528 .07639 .08147 .05423	CSL 00313 00283 00281 00228 00183 00224 00246 .00010	CLN 00070 00085 00040 00046 .00002 .00007 .00085 .00002

TABULATED SOURCE DATA - CA20

PAGE 739

	CYSD	747/1	01 SI	(	ORBITER DAT	A	(NGN1-	(3) ( 04 M	AR 75 )
DATA							PARAMETRIC	DATA	
T. XHRP YHRP ZHRP	• .00	00 IN.YO			-	ALPHAC = RUO-U = ELEVON = BETAO = DX =	4.000 15.000 5.000 .000	BETAC = RUD-L = AILRON = PHI = DY =	.000 15.000 .000 .000
	RN/L =	3.23	GRADIENT INT	ERVAL = -1	.00/ 4.00				
CN .64464 .64987 .65571 .67015 .69127 .70536 .71990 .00175	CA 00895 01110 01148 01225 01147 01176 01223 00072	CLH .07182 .06052 .05266 .04105 .03045 .02267 .01467	CY 08122 08062 08044 08019 .08047 .08161 .08152	CBL 00216 00197 00161 00169 00157 00172 00184 .00005	CYN00013000330004300034000160001600016	CL .62765 .63326 .63302 .65321 .67351 .68725 .70147	CD .14727 .14645 .14749 .15024 .15911 .15923 .16230	CSL 00212 00199 - J0165 00172 00155 00170 00183	CLN .00040 .00016 .00002 .00008 .00025 .00026 00008
	CA20	747/1	02 51	c	X81TER DATA		(NGN14	<b>41 с в</b> 4 ми	IR 75 )
DATA							PARAMETRIC	DATA	
T. XHRP YHRP ZHRP	00	00 IN.YO				ALPHAC = RUD-U = ELEVON = BETAO = DX =	4.888 15.680 5.680 .600 .800	BETAC = RUD-L = AILRON = PH1 = DY =	.000 15.000 .000 .000
	RN/L =	3.35	GRADIENT INT	ERVAL1	.00/ 4.00				
CN .34068 .34787 .35779 .37395 .40052 .41813 .43748	CA .01597 .01593 .01626 .01652 .01706 .01739	CLH .08776 .08190 .07760 .07233 .06547 .06033	CY 00261 00228 00201 00165 00005 .00020 .00081	CBL 00311 00281 00269 00229 00209 00217 00222	CYN .80017 .80917 .00013 .00034 .80032 .00010	CL .33273 .33981 .34953 .36540 .39148 .40976 .42775	CD .07489 .07609 .07814 .08121 .08535 .08972 .09345	CSL 00304 00274 00263 00220 00201 00212	CLN .00071 .00055 .00059 .00073 .00089 .00047
	T. XHRP YHRP ZHRP  CN .64464 .64987 .65571 .69127 .70536 .71990 .00175  DATA  T. XHRP YHRP ZMRP  CN .34068 .34787 .35779 .37395 .40052 .41813	OATA  T. XHRP = 1109.00 YHRP = .00 ZHRP = 375.00  RN/L =  CN	OATA  T. XHRP = 1109.0000 IN.XO YHRP = .0000 IN.YO ZHRP = 375.0000 IN.ZO  RN/L = 3.23  CN	OATA  T. XHEP = 1109.0000 IN.XO	OATA  T. XHEP = 1109.0000 IN.X0 YHRP = .0000 IN.Y0 ZHRP = 375.0000 IN.Z0  RN/L = 3.23 GRADIENT INTERVAL = -1  CN	OATA  T. XHRP = 1109.0000 IN.X0 YHRP = .0000 IN.Y0 ZHRP = 375.0000 IN.Z0  RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00  CN CA CLH CY CBL CYN .6446400895 .07182001220021600013 .6496701110 .05052000620019700033 .65557101148 .05266000440018100043 .65701501225 .04105000190015900034 .6912701147 .03045 .000470015700013 .7053601176 .02267 .001010017200016 .7199001223 .01467 .001520016400016 .001750007209377 .00020 .0000600007  CA20 747/1 02 SI CRBITER DATA  DATA  T. XHRP = 1109.0000 IN.X0 YHRP = .0000 IN.X0 YHRP = .0000 IN.X0 YHRP = .0000 IN.X0 XHRP = .00000 IN.X0 XHR	OATA  T. XHEP = 1109.0000 IN.X0 YHEP = .0000 IN.Y0 ZHEP = 375.0000 IN.Z0  ELEVON = BETAD = DX = ELEVON = BETAD = DX =	0ATA  T. XHRP = 1109.0000 IN.X0 YHRP = .0000 IN.Y0 ZHRP = 375.0000 IN.Z0  CN	0ATA  T. XHRP = 1109.0000 IN.X0 YHRP = .0000 IN.Y0 ZHRP = 375.0000 IN.Z0  CN

			CASO	<i>7</i> 47/1	01 51		ORBITER DATA		(NGN14	5) ( 04 M/	IR 75 )
	REFERENC	E DATA							PARAMETRIC	DATA	
SREF = LRAF = EREF = SCALE =	2690.0000 SQ. 474.8100 IN. 926.6880 IN. .0300	YHRP	00:	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = ELV-1B = ELEVON = GETAO = DX =	4.000 .000 .000 .000	BETAC = ELV-0B = MACH = PHI = DY =	.000 .000 .000 .000
			RN/L =	3.37	GRADIENT IN	TERVAL = -	1.60/ 4.69				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	EN .20552 .20565 .31168 .33171 .36017 .30346 .40771	CA .0088t 00145 08231 08280 08407 08563 08693 08075	CLM .09753 .08457 .07942 .07205 .06427 .05399 .04454 00432	CY0024800233002330021300132001150007500009	CBL0019300172001610013200113001550018600007	CYN000500004200024 .00001 .00025 .00013 .00006 .00002	CL .28104 .29535 .30754 .32724 .35540 .37861 .40272 .00477	CD .05039 .05060 .05189 .05438 .05954 .06104 .06397 .00007	CSL 00199 00177 00169 00130 00107 00150 00102	CLN 00015 00012 .00005 .00024 .00045 .00039 .00030
ALFHAO =	14.000 DZ .000 3.000 7.500 15.000 50.000 45.000 69.000 GRADIENT	CN .5344 .54716 .5555 .5556 .5249 .60472 .61693	CA 01237 01674 01797 01897 01813 01763 01710 00146	CLM .12579 .10553 .09525 .09437 .07247 .05674 .05118	CY 08220 00174 00140 00104 00019 00001 00821 .00015	CBL002850018100162001490012300102 .00009	CYN 60009 00020 00014 00007 00019 .00010 .00041 00004	CL .52156 .53495 .54311 .55714 .57927 .59102 .60288 .00447	CD .11729 .11613 .11669 .11987 .12574 .12919 .13267 00039	CSL 00201 00101 00161 00147 00143 00117 00089 .00007	CLN .00840 .00024 .00026 .00029 .00016 .00039 .00055

GRADIENT

.00313

-.00100

-.00514

-.00013

.00007

(NGN146) ( 84 MAR 75 )

747/1	01 51	ORBITER DATA

### PARAMETRIC DATA

	REFERENC	E DATA							PARAPEIRIC	UAIA	
LREF =	2690.0000 SQ. 474.8100 IN. 936.6800 IN. .0300	YMRP	<b>-</b> .00	3.33	GRADIENT INT	FRVN m ~1	.00/ 4.00	ALPHAC = ELV-IB = ELEVON = BETAD = OX =	4.000 .000 10.000 .000	BETAC = ELV-08 = HACH = PHI = EV	.000 3.000 .003 .000
			M17	3.35	31536316111 6144						
ALPHAO =	10.000										
	DZ	CN	CA	CLH	CY	CBL	CYN	CL	CU	CSL	CLN
	.000	.49389	.01076	.00865	00173	00199	00102	.48452	.09535	00213	00055
	3.000	.50950	.00920	00347	00167	00174	00091	.50934	.095 <b>55</b>	00163	-100050
	7.500	.52357	.00748	01030	00117	00145	~.08090	.51431	.09829	00159	00064
	15.000	.54348	.00733	-,01717	00140	00127	08043	.53396	.10159	00133	00020
	30.000	.57392	.00572	02570	00056	00104	00014	.55421	.10529	00105	.00005
	45.000	.59068	.03579	03101	00009	00148	00038	.58070	.10827	00152	00012
	60.000	.68959	.00561	03682	.00050	00176	00854	.59935	.11138	00165	00023
	GRADIENT	.00520	00085	00404	-00002	.00008	.00004	.00527	.00005	.00009	-00005
			RN/L =	3.27	GRADIENT INT	ERVAL = -1	.00/ 4.00				
ALPHAO =	14.000								•		~
	DZ	CN	CA	CLH	CY	CEL	CAN	CL	CD	CSL	CLN
	.000	.74511	.00051	.03228	00005	09333	00125	.72286	. 18075	00353	00041
	3.000	.75450	08249	.01685	.00025	00302	00159	.73269	.18911	00331	00031
	7.500	.76203	0031 t	.00703	.00169	00313	00183	.74015	. 18134	00348	00102
	15.680	.77378	00237	08241	.00209	09337	00191	.75137	.16490	00373	00104
	39.000	.79302	.08047	01431	.00192	08271	00094	.76935	.19230	00285	00026
	45.000	.88812	.08052	02055	.00223	00312	000EB	.78205	.19552	00324	80010
	60.000	.01950	.00935	02677	.00259	00355	00086	.79507	.19360	00365	.00003

.00030

.00010

-.08011

.00328

-.00021

			CA20	747/1	OI SI		ORBITER DAT	A	(NGN1	47) ( 04 M	AR 75 )
	REFERENC	E DATA							PARAMETRI	C DATA	
SREF = LREF = BREF = SCALE =	2690.0000 50. 474.8100 IN. 936.6850 IN.	YHRP	0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-IB = ELEVON = BETAO = OX =	4.000 000 000.01 000	BETAC = ELV-09 = MACH = PHI = DY =	000. 000. 005. 000. 000.
			RN/L =	1.89	GRADIENT IN	FRVAL = ~1	1.00/ 4.08	υλ -	-000	01 -	•000
	- 10.000										
ALPHAO	- 10.000 02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN .50523 .51554 .52513 .54517 .57021 .59269 .59345 .00347	CA .00251 .00122 .00148 .00894 .00815 .00643 .00040	CLH 08877 01573 01732 02592 03130 03463 03778 00232	CY 00094 00072 00076 00021 .00045 .00151 .00240	CBL 00235 00218 00209 00194 00112 00212 00230	CYN001220011700097000630005500055	CL .49712 .50759 .51690 .93573 .56162 .57396 .58229	CD .09021 .09075 .09265 .09559 .09317 .10164 .10432	CSL 00252 00235 00223 00202 00161 00219 00219	CLN 0809D 00077 0006D 00023 .00011 00017 00025
			CARD	747/1	01 51	(	XBITER DATA		(NGN14	(8) ( C) (8)	JR 75 1
	REFERENC	E ĐẠTA							PARAHETRIC	CATA	
SREF = BREF = SCALE =	2690.0000 SQ.( 479.8100 IN. 936.6900 IN. .0380	FT. ICHEP YESEP ZHEP	88	00 IN.XO 00 IN.YO 10.XO 10.XO				ALPHAC = ELV-18 = ELEVON = BETAO = OX =	4.000 .000 10.000 .000	25TAC = ELV-09 = MACH = PHI = DY =	.000 3.080 .700 .000
			RM/L =	3.54	GRADIENT INT	ERVAL = -1	.00/ 4.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 6D.000 GRADIENT	CN .55626 .57014 .69362 .59965 .62301 .64196 .65138	CA .03960 .02647 .02810 .02854 .02971 .03028 .03093	CLH .01692 .00414 00392 01079 01897 02572 03254 00426	CY00948 00911 .00913 00918 00928 .00908 .00941	CBL 00230 00230 00200 00126 00023 00054 00000	CYN00064000600005500028 .00028 .00014 .00013	CL .54249 .55554 .55987 .59557 .60959 .68694 .64596	CD .12673 .12704 .12901 .13233 .13744 .14130 .14531	CSL 00237 00237 00206 00169 .00027 00031 00050	CLN 00019 00019 00005 .00008 .00019 .00028

PAGE 743 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 (NGN149) ( 04 MAR 75 ) ORBITER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA .000 ALPHAC \* 4.000 BETAC XHRP = 1109.0000 IN.XO SREF . 2690.0000 SQ.FT. RUD-L .000 .000 RUD-U = .0000 IN.YO 474.8100 IN. YHRP = AILRON = -10.600 5.000 ELEVON = 375.0000 IN.ZO ZMRP = BREF = 936.6800 IN. .000 PHI .000 BETAO = SCALE = .0300 .080 .080 DY DX GRADIENT INTERVAL = -1.00/ 4.00 3.34 RN/L = ALPHAD = 10.000 CD CSL. CLN CL CY CBL CYN CLH DΖ CN CA .07483 -.05431 .00106 .04372 -.05367 -.00839 .39510 .00509 .04372 .40209 .000 -.05353 .00135 .07543 -.05295 -.00796 .41049 .03113 .04388 .00300 3.000 .41736 .07666 -.05315 .00176 -.00750 .42446 -.05265 .02459 .04400 .43132 .00179 7.500 .07956 -.05261 .00210 .44699 .04464 -.05217 -.00707 .00074 .01496 .45401 15.000 .00269 -.00637 .47674 .08402 -.05192 -.05160 .04615 -.00064 .00497 39.000 .48408 .08745 -.05211 .00248 -.00660 .49591 -.05175 .00000 -.00186 .04705 .50356 45.000 .09111 -.05210 .00246 .04816 -.05174 -.00563 .51697 -.00885 -.00003 .52484 60.000 .00020 .00026 .00010 .00024 .00014 .00513 .00005 -.00419 .00509 -.00059 GRADIENT GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.29 ALPHAO = 14,000 CLN CYN CŁ CD CSL. COL CLH CY CX 02 CN .00599 .64335 .15350 -.04974 -.00525 .04035 -.04995 -.00570 .05844 .66138 .000 . 15055 -.04887 .00595 .64224 -.04885 -.00604 .04246 .65958 -.00929 .05329 3.000 .00573 .15114 -.04800 -.04796 -.00505 .64796 .04597 .04308 7.590 .66527 -.01011 .00822 .66873 . 15497 -.04713 -.00537 .02796 .04351 -.04724 -.01142 15.000 .68636 . 16151 -.04669 .00623 .04535 -.04681 -.00525 .69123 .01493 .70977 -.01051 30.000 .16507 -.04679 .00629 .04583 -.04692 -.00522 .70452 .72353 -.01028 .00690 45.000 .00537 -.04687 -.04702 -.00516 .71809 .16864 -.00119 .04633 -.01009 .73755 60.000

.00070

.00037

-.00026

-.00171

-.00086

-.00050

GRADIENT

-.00034

.00029

-.00037

-.00098

# CA20 (747/1 01 SI AT38 AT39) - (747/1 01 SI)

(UGN845) ( 25 NOV 75 )

### REFERENCE DATA

### FARAMETRIC DATA

 = = =	5500.0000 SQ.FT. 327.7800 IN. 2348.0400 IN. .0300	YMRP	1339.9000 0000. 0008.001	IN.YC	ALPHAC • ELV-1B • ELEVON • PHI •	•	.000 .000 5.000	BETAC ELV-OB HACH DX	-	.000 3.000 .600
					DY .		.000	EETAD	_	-000

# RN/L = 3.23 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO =	8.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	01373	.03749	.01441	.00020	00028	00019	01399	.00700	00029	00018
	3.000	00968	.00765	.00778	00007	080t0	08013	00993	.0073!	08010	00013
	7.500	00930	. 0 <b>07</b> 75	.01507	00165	00000	.00055	00956	.00742	-08082	.00055
	15.000	01572	.00808	.02492	00050	00004	.88915	01597	.00751	00004	.00015
	30.000	~.01665	.00837	.02845	00091	.00030	.00007	01688	.00773	.00939	.00006
	45.000	02111	.01009	.03776	00114	.00082	.00080	02138	.00927	.00054	.00078
	60.080	01337	.02021	.01275	.00147	.00214	.00664	01395	.01952	.00237	.00555
•	GRADIENT	.00135	.00005	09221	00009	.00005	.00002	.00135	.00010	.00005	-00005

### CA20 (747/1 01 S1 AT38 AT39) - (747/1 01 S1)

(UGN046) ( 25 NOV 75 )

### REFERENCE DATA

### PARAMETRIC DATA

SREF	•	\$500.0000 SQ.FT	. XMRP	=	1339.9000	IN.XC	ALPHAC =	4.000	SETAC	_	.000
LREF	•	327.7800 IN.	AHKL	-	.0000	IN.YC	ELV-18 =	-889	ELV-0B		3.000
eref	2	2348.0400 IN.	Zrttop	=	190.8000	IN.ZC	ELEVON *	5.000	MACH	=	.600
SCALE	=	.0300					PH! - =	.000	DX		.000
							PY -	.000	EETAD	-	.000

### RN/L = 3.33 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAD =	12.000										
	DZ	DCN	DCA	DCLM	DCY	DUBL	DCYN	DCL	DCD	DCSL	DCLN
•	.000	03599	.00814	.02724	.00044	08917	.00032	03648	.00379	08013	.00034
	3.000	03814	.00862	.04238	.00084	88884	.00007	03288	.88401	00003	.00007
	7.500	03769	.00956	.04446	.00076	.00003	00012	03229	.00493	.00001	08012
	15.000	03732	.01075	.04236	00009	00002	.00018	03503	-08593	00001	.00019
	30.000	03387	.0111B	.03763	.08075	00084	.00005	03480	.00662	00004	.00005
	45.000	02951	.01118	.03254	-000B4	.08807	00015	03024	.00659	.00005	00015
	60.000	03326	.01195	.02806	.00117	.00018	08018	~.03484	.00719	.00016	~.80020
	GRADIENT	00972	.08016	.08585	.03013	.00004	08009	00073	.00007	.00003	00009

TABULATED SOURCE DATA - CA20

PAGE 745

### CA20 (747/1 01 S1 AT38 AT39) - (747/1 01 S1)

(UGN047) ( 25 NOV 75 )

oc	cc	DC.	NCE	DA	T	k

# PARAMETRIC DATA

SREF •	5500.0000 327.7800		HRP HRP	-	1339.9000	IN.XC	ALPHAC ELV-1B		8.000 000.	EETAC ELV-09		.000 3.000
LREF = BREF = SCALE =	•	IN. Z	HPP	-	199.8889		ELEVON PHI	-	5.000 .000		-	.600 .600
DUALE -	.0380						צמ	-	.000	BETAG	-	.800

# RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO =	16.000 OZ .000 3.000 7.500 15.000 30.000 45.000 50.000 GRADIENT	DCN08332058880637905515057300515805251	DCA .00934 .00932 .01227 .01334 .01363 .01284 .01278	DCLH .00382 .00561 .02896 .03593 .02972 .01648 .00495	DCY .00065 .00169 .00235 .00229 .00154 .00078 .00171	DC8L 00028 00023 00014 00000 00036 00037	OCYN .00023 00002 00115 00113 00076 00059 00089	DCL 06351 05911 06442 06591 05915 05233 05321	900 00410 00346 00154 00096 .00029 .00018 00024 .00022	005L 09023 09023 00034 00021 00047 00053 .00000	DCLN .00028 .00002 00111 00111 00074 00051 00082
----------	--------------------------------------------------------------------------------------------	----------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------------	---------------------------------------------------------------------------	------------------------------------------------------------	----------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------------------	----------------------------------------------------------------------	-----------------------------------------------------------------------

# CARD 747/1 01 SI AT38 AT39 DELTA BETA=(-5)-(0)

(USNE48) ( 25 NOV 75 )

BETAD =

-5.000

PARAMETRIC DATA

.000

### REFERENCE DATA

### ALPHAC = 4.800 BETAC = -5.000 SREF = 5500.0000 SQ.FT. XMRP = 1339.9800 IN.XC 3.000 ELV-08 = ELV-IB = .000 .0000 IN.YC YHRP = 327.7800 IN. .600 ELEVON = 5.000 MACH = ZMRP = 190.8000 IN.ZC BREF = 2348.0400 1N. .003 DX .000 PHI .0300 SCALE =

### GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO =	12.000 DZ DCN .0000025: 3.000 .0102: 7.500 .0134: 15.000 .0094: 30.000 .0039: 45.0000003 60.0000012: GRADIENT .0042	00360 00427 00491 00502 00516 00584	OCLM00367031630389601939012780053300932	DCY .10235 .11144 .10860 .10541 .10111 .10406 .10387 .00303	DCBL .01233 .01453 .01539 .01570 .01570 .01649 .01675	DCYN0122701984020810202701905020990213300252	DCL 00228 .01052 .01364 .00997 .00449 .00022 00052	DCD 00245 00259 00295 00401 00468 00523 00603	00SL .01101 .01242 .01317 .01355 .01367 .01427 .01450 .00047	DELN 01347 02122 02227 02177 02056 02296 00255
----------	---------------------------------------------------------------------------------------------------------------------	----------------------------------------------------	-----------------------------------------	-------------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------	-------------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------------------------	---------------------------------------------------------------------

PAGE 746

			CARD	(747/) D1 :	SI) - (747/1)	D/S (049 - 035)		(UGND4	9) (25 N	OV 75 1
	REFERENCE DA	TA						PARAMETRIC	DATA	
SREF =	5500.0000 50.FT.	XHRP	= 1339.90 = 00	IDD IN.XC		-	LPHAC =	.000	ELV-08 =	.000 3.000

	327.7800 IN. 348.0400 IN. .0300			00 IN.YC 00 IN.ZC				ELEVON = ELEVON =	.000 5.000 .000 .000	HACH = DX = EETAO =	3.000 .600 .000
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.60				
ALPHAD =	6.090										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCFN
•	.000	10903	.00511	. 10252	.00122	.00096	00161	16914	.00130	.02020	00164
	3.600	10818	.00530	.11021	.00154	.00089	00146	10930	.00152	.00084	00149
	7.500	09892	.00509	.09731	.00087	.00069	00095	09903	.00163	.00054	00097
	15.000	08291	.00516	.07030	00052	.08045	00022	08304	.00226	.00044	00023
	30.000	05673	.00440	.03463		.00064	.60037	05685	.00242	.00005	.000.5
	45.000	02918	.00080	00341	00377	00153	.00024	02919	00022	00153	.00029
	69.000	.00650	02975	00735	02235	80748	00863	.00753	02550	00778	00837
	GRADIENT	.00140	00001	00087	00006	00004	.00009	.00140	.00004	00003	.00009
			RN/L =	3.31	GRADIENT INT	ERVAL =	.00/ 12.00				
ALFHAO =	10.000										
	ĐZ	DCN	DCA	DCLM	DCY	DCB1.	DCYN	DCL	DCD	DOSL	DCLN
	.000	19B33	00140	.27222	.00063	.00098	00177	19836	00833	.00092	00180
	3.000	16820	00030	.25454	.00059	.00093	00156	16808	00697	.00068	00160
	7.500	17365	.08031	.23197		.00062	00136	17355	00575	.00058	00138
	15.000	13876	.00261	. 16919	00039	.00060	08039	13977	00224	.00058	00041
	30.000	C9808	.00395	.09765	00125	.00001	.08022	09815	.00044	.00002	.00022
	45.000	07047	.00314	.06432	00090	E090Q.	.00013	07054	.00068	.00004	-00012
	60.000	03917	.00099	.64221	.00116	.00062	00890	03918	00038	.00059	00092
	GRADIENT	.00331	.00022	00534	.00005	00005	.00005	.00330	.00034	00005	.00005
			RN/L =	3.27	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO =	14.800										
	ĐΖ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.689	28590	00262	.33033		.00055	00257	26555	01193	.00046	00258
	3.000	25996	00195	.33027		.08061	00241	25973	01103	.00052	00243
	7.500	24879	00124	.32755		.00054	00179	24860	00992	.00048	00181
					00455	00000	00170	- 24000	_ 00000	ODDUC	_ 02100

.00045 -.00140 -.21449 -.00699 .27677 .00152 .08050 -.00138 .00050 15.000 -.21460 -.00848 .00026 -.00012 -.14929 ~.00239 .00025 -.00013 .16590 30.000 -.14928 .00282 -.00150 -.00802 .00057 -.18959 -.00021 -.00000 .00057 45.000 -.10952 .00352 .10861 -.06595 .00077 -.00035 .00152 .00150 -.06537 .00377 .07928 -.00273 -.00040 60.080 .00027 .00000 .00011 .00240 .00018 -.00039 -.00005 -.00000 .00011 GRADIENT .00241



### TABULATED SOURCE DATA - CA20

CA20 (747/1 01 S1) - (747/1) D/S (050 - 035) (UGN050) ( 25 NOV 75 )

PAGE 747

							. 1000	,			
	REFEREN	CE DATA							PARAMETRIC	DATA	
SREF = !	5500.0800 SQ	.FT. XHRP	= 1339.90	000 IN.XC				ALPHAC *	.000	BETAC =	.000
LREF =	327.7808 IN			OD IN.YC				ELV-IB =	.000	ELV-08 =	3.000
	2348.0400 IN			180 IN.ZC				ELEVON =	5.088	MACH =	.600
SCALE =	.0300	. Ziud	- 150.61					= IHS	.000	DX =	10.808
DUALE -	.0200							DY =		BETAD =	
								UT =	.000	BEIND #	-000
			RN/L =	3.25	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO =	6.080										
	DZ	DCN	DCA	DCLM	DCY	DCBL.	DCYN	DCL	DCD	DCSF	DCLN
	.000	09580	.00390	.08262	.09160	.00084	00180	09588	.00056	.00078	00183
	3.000	09491	.00422	.08552	.00212	.00077	00170	09500	.00090	.00071	00173
	7.500	08872	1 4400.	.07700	.00022	.00052	00068	08882	.00131	.00049	00069
	15.000	07461	.00486	.05463	.00031	.00062	00049	07473	.00ಕ್ಲೇ	.30060	00051
	30.000	05643	.00369	.03126	00892	.00025	.00014	05653	.00171	.00025	.00013
	45.080	07426	.08458	00462	03330	01074	.01272	07437	.00198	01028	.01308
	60.000	23231	.01018	02499	18177	05849	.06783	23253	.00207	05809	.06983
	GRADIENT	.00	.00007	00084	00020	00804	.00016	.00097	.00010	07384	.00016
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO *	10.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	OTALN
	.000	16516	00346	.23900	.00289	.00113	00258	16494	00923	.00104	00262
	3.000	16232	00187	.23658	.06252	.00091	00223	16216	00753	.00083	00226
	7.500	15348	00084	.21927	.00139	.00068	-,80144	15338	00539	.00063	00145
	15.000	12732	.007.23	.15917	.00034	.00066	00049	12732	00221	.00064	00052
	30.080	09244	.00318	.09459	00068	.00028	85000	09249	00005	.00029	.00027
	45.000	07371	.00297	.06372	00344	80057	.00125	07376	.00040	00052	.00127
	60.000	06336	.00279	.03595	01113	00321	.00420	06342	.00058	00306	.00431
	GRADIENT	.00159	.00045	00273	00020	00085	.00016	.00157	.00051	00005	.00016
	•							******	******	124422	
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	COC	DCSL	DCLN
	.088	23318	00762	.36046	.00516	.00141	00331	23278	01576	.00129	00336
	3.000	22511	00629	.34118	.00374	.00116	00261	22475	01414	.00107	00265
	7.500	21868	00317	.32886	.00385	.00169	- 00256	21844	01080	.00100	00260
	15.000	18895	00218	.26435	.00159	.00082	00111	18876	00877	.00079	00114
	30.000	13578	.00265	.16077	.00107	.00051	00052	13579	00289	.00050	00054
	45.000	10272	.00246	.10974	.00030	.00059	-00007	10274	00112	.00050	.00005
	60.000	07656	.00246	.07950	.00359	.00195	00128	07660	08021	.00190	00135
	GRADIENT	.00189	.00060	00449	00016	00004	.00009	.00187	.08067	00004	.00009

---

PAGE 74B

CA20 (74)	7/1 01 51)	<b>~</b> (747/1)	D/\$ (051 - 0	351

(UGN051) ( 25 NOV 75 )

	REFER	ENCE DATA							PARAHETRIC	DATA	
LREF =	5560.0000 : 327.7860 2348.0460 .0300	IN. YHRP	00	00 IN.XC 00 IN.YC 080 IN.ZC				ALPHAC = ELEVON = PHI = DY =	.000 .000 5.000 .000	BETAC = ELV-OB = MACH = DX = BETAO =	000. 000. 000.09 000.09
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	6.000										
A21 1010	DZ	DCN	DCA	DCLH	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	.080	08624	.00189	.06510	.00127	.00842	00135	- 08626	00112	.00037	001E6
	3.080	68179	.00263	.05305	.00270	.00972	00162	00183	00023	.00066	00165
	7.500	07584	.00305	.04491	.00222	.00068	00139	07590	.00841	.00063	00140
	15.000	05632	.00369	.03285	.08075	.00052	00079	06541	.00137	.00858	08081
	30.000	05402	.00321	.02328	08074	00011	08887	05410	.00132	00011	00007
	45.000	01739	.01057	07025	.00321	.00211	00061	01775	.01006	.00209	00069
	69.000	.05403	.04106	- 40248	.02254	.01244	00428	.08254	.64397	.01228	00471
	GRADIENT	-00138	.00015	00262	.00011	.00003	.00800	.00138	.00020	.00003	.00000
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAD =	10.000										
	DZ	9CN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	OC5L	DCLN
	. 080	14466	00235	.21759	.00701	.00094	00291	14389	00739	.00084	00294
	3.000	14163	00219	.21532	.00369	.00097	00217	14151	00713	.00078	00220
	7.500	13272	00894	. 19397	.00178	.00072	00150	13261	00557	.00067	00153
	15.000	11234	.00137	.14219	.80165	.00053	00103	11232	00255	.00050	00105
	30.000	08364	.00227	.08790	00059	.00022	.00025	08397	00068	.00023	-00024
	45.000	06737	.00273	.05854	00121	00001	.00050	05742	.00037	.00000	.00050
	60.000	05193	.00435	.02053	00276	00052	.00123	05285	.00254	00048	.00123
	GRADIENT	.00155	.00020	00327	00068	00003	.00018	.00154	.00025	00002	.00019
			RN/L ⇒	3.28	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.088										
	DZ	DCN	OCA.	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	19219	.60518	.25187	00558	68164	.00086	19225	00153	00101	.00089
	3.000	19528	00254	.30325	.08854	.00026	00110	19507	00925	-08022	00111
	7.500	16974	00579	.31510	.00451	.00103	00235	18943	01241	.00095	00239
	15.000	16314	00219	.24498	.00228	.00072	··.CD160	~. 16297	00788	.00067	00163
	30.000	12073	.00112	.15404	.08887	.00038	00D3B	12070	00309	.00037	0004 <b>0</b>
	45.000	09557	.00161	.10649	088882	.00023	.00012	69957	00173	.00023	.00012
	69.088	07949	.00099	.09009	.08016	.08017	.00002	07548	00182	.00017	.00002
	GRADIENT	.00040	60140	.00797	.00131	.00027	08042	.00045	00139	.00025	00043

4

\*

TABULATED SOURCE DATA - CA20

PAGE 749

	REFERENC	E DATA							PARAHETRIC	DATA	
SREF = 5	500.0000 SQ.	FT. XHRP	= 1339.90	00 IN.XC				ALPHAC =	4.000	BETAC .	.000
LREF =	327.7800 IN.	YHRP	00	00 IN.YC				ELV-IB =	.000	ETA-CB =	3.000
BREF = 8	348.0400 IN.	2MRP	- 190.80	00 IN.ZC				ELEVON =	5.000	HACH "	.600
SCALE =	.0300							PH! =	.080	DX =	.000
								DY =	.000	BETAO *	.000
			RN/L =	3.22	GRADIENT INT	ERVAL =	.00/ 12.00			•	
ALPHAO =	6.000										
	DZ	DCN	DCA	DCLH	DCY	DCĐL.	DCYN	DCL	DCD	DCSL	DCLN
	.000	08970	.01542	.02440	.00141	.00095	00125	09082	.00596	.00082	00135
	3.000	08596	.01449	.02762	.00116	.00080	00084	08 <b>701</b>	.00542	.00071	00092
	7.500	07905	.01348	.02611	.00070	.00065	00035	- 33	.00514	.00061	00042
	15.000	06972	.01224	.02177	.0000	.00039	.00029	362	.08489	.00042	.00025
	30.000	05139	.00910	.02154	00054	.00039	.00053	05206	.00360	.00843	.00048
	45.000	03229	.00672	.01605	00169	.00918	.00169	03281	.00331	.00035	.00167
	60.000	00953	.00883	05112	00347	00334	.00690	01640	.00778	00260	.00721
	GRADIENT	.00143	00026	.00018	00010	00804	.00012	.00145	00010	00003	.00012
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	D2	DCN	DCA	DCLH	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	.000	17154	.01401	. 15546	.00391	.00126	00257	17207	00399	.00099	00269
	3.000	16028	.01375	.14012	.00327	.00108	00198	160B4	00308	.00085	00209
	7.500	14486	.01338	.11990	.00237	.00083	00119	14547	00184	-00070	~.00127
	15.000	12223	.01250	.08871	.00171	.00065	00062	12287	00034	.00059	00059
	30.000	09136	.01048	.05980	.00844	.00031	.00003	09195	.00087	.00031	00001
	45.000	07103	.008B3	.04088	.00012	.00004	.00036	07156	.00136	.0000	.00035
	60.000	05020	.00747	.01666	00033	00079	.00107	05071	.00218	00067	-00114
	GRADIENT	.00355	00009	00474	00020	00008	.00018	.00354	.00029	00004	.00019
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAD =	14.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	OCSL	DCLN
	300	25112	.01144	.25990	.00403	.00150	00294	25094	01487	.00118	00308
	3.000	24121	.01143	.24884	.00264	.00109	00197	24109	01385	£830 <b>0.</b>	00207
	7.500	22302	.01240	.22528	.00203	.00084	00128	22309	01098	.00071	60136
	15.800	18643	.01369	.16983	.00186	.00073	00098	~.18683	00588	.00062	00105
	39.000	13516	.01230	. 10742	.00017	.00019	.00016	13570	00200	.00021	.00014
	45.000	16509	.01022	.07761	.00023	85000.	.00019	10559	00082	.00028	.00016
	60.000	08394	.00642	.06503	.00021	.00063	.00001	06436	80048	.00063	00000
	GRADIENT	.00377	.00013	00467	00026	00008	.00028	.00374	.00053	00006	.08022

60.000

GRADIENT

-.07655

.00227

.00743

.00642

PAGE 750 DATE 64 DEC 75 TABULATED SOURCE DATA - CA20

CA20 (747/1 01 S1) - (747/1) D/S (053 - 035) (UGN053) ( 25 NOV 75 ) PARAMETRIC DATA REFERENCE DATA

	HEFEREN	CE DATA							-ARAFIE INTO	UATA	
LREF =	5500.0000 SQ 327.7800 IN 9348.0400 IN .0300	I. YHRP	= .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.000 .000 5.000 .000	BETAC = ELV-OB = MACH = DX = EETAO =	.000 3.000 .600 10.000
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	6.000										
	02	DCN	DCA	DCLH	DCY	OCBL	DCVN	DCL	DCD	DCSL	DCLN
	.000	08001	.01346	.00849	.00244	.00075	80155	08098	.08503	.00059	00162
	3.000	07803	.01302	01386	.00178	.00069	+.00098	07896	.08479	.00059	00104
	7.500	07334	.01235	.01419	.00107	.00055	~.00045	07422	.00461	.00050	00850
	15.000	~.05492	.01117	01140	.08080	.08037	00021	05574	.00432	.00035	00024
	30.000	04807	.00893	. 00555	.08057	.00005	.00009	04874	.00386	.00007	.00009
	45.088	02608	.01019	08444	.00196	08427	.00228	02700	.00741	00401	.00272
	60.000	.00807	.01883	35415	.00876	01657	.00789	.00806	.01957	01555	.08957
	GRADIENT	.00090	08015	.00071	08018	00003	.00014	.00091	00065	00001	.00015
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALFMAO =	10.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	OCL	DCD	DCSL	DCLN
	.000	t4098	.01164	. 13119	.00138	.00897	00179	14128	00375	.00078	00163
	3.000	13873	.01151	.13356	.00051	.00073	08104	13918	00306	.00082	00111
	7.500	12703	.01147	.11098	00854	.08843	00014	12753	00187	.00041	00019
	15.000	10914	.01109	.08409	00889	11000.	.00034	10970	00038	.00014	.00033
	30.000	08285	.00928	.05434	00155	.00801	.00058	0B337	.00057	.00008	.00089
	45.000	06528	.00810	.03503	00110	00033	.00080	06575	.00123	00024	EE000.
	60.000	84555	.00752	.00764	00895	00128	.00114	05006	.00230	00107	.00125
	GRADIENT	.00191	.00005	00228	00025	00007	.00022	.60189	.00025	00885	.00022
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	19.000										
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCAN	DCL	OCD	DCSL	DCLN
	.000	28934	.00537	.26671	.00252	-00141	00272	20931	01610	.60112	00285
	3.000	20723	.00597	.26522	.00859	.00889	00148	~.20682	01973	.00873	00157
	7.500	19331	.00399	.23518	.00002	.008 <b>57</b>	00855	- 19319	01126	.00051	00665
	15.000	16355	.01072	.17305	08893	.00031	.00028	16387	00544	.00033	.00025
	30.080	18833	.01809	.10747	00186	00806	.00085	12271	00276	.00003	.00037
	45.080	05593	.00854	.07859	00108	.00012	.00082	+.09321	-,00143	.00018	.00220
	CO 000	02000	00717	DOTHO	~ 0000	nanen	00070	- 07000	- UUUDZ	00053	ດຕຸກສອ

-.00093

-.00037

.06749

-.08483

.00050

-.08011

.00038

.00028

-.07900

.00222

-.00083

.00065

.00053

-.000008

.00032

.00029

TABULATED SOURCE DATA - CA20

PAGE 751

	CV50	(747/1	01 51)	- (747/1)	D/S (054	- 0351
--	------	--------	--------	-----------	----------	--------

(UGNB54) ( 25 NOV 75 )

	REFERENC	E DATA							PARAMETRIC	DATA	
LREF =	509.0800 SQ. 327.7800 IN. 348.0400 IN.	YHRP	08	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELEVON = PHI = DY =	4.080 .080 5.080 .000	BETAC = ELV-OB = MACH = DX = EETAO =	.000 3.000 .600 20.000
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAD =	6.000										
ALFINO -	DZ	DCN	DCA	DCLH	DCY	OCBL,	DCYN	DCL	DCD	DCSL	DCLN
	.000	07156	.01120	01705	.00259	.80079	00175	07234	.00366	.00059	00182
	3.000	- 06994	.01108	01227	.00213	.00068	00133	07072	.60371	.00054	00148
	7.500	06674	.01084	00826	.00170	.00055	00092	06751	.00391	.00046	00097
	15.000	08973	.01019	00592	.00144	.00045	00057	05146	.00378	.00039	00061
	30.000	- 64880	.00815	.00230	.00042	15000.	00008	04938	.00301	.00020	00010
	45.000	03816	.00732	00328	00069	00074	.00134	03871	.00329	00059	.00141
	60.000	03269	.01099	03859	00179	00195	.00619	03365	.00752	00129	.00536
	GRADIENT	00065	00005	.00115	00012	08883	.00011	.00065	.00002	00002	.00011
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAD =	10.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL.	DCAN	DCL	DCD	DCSL	DCLN
	.000	12329	.00842	.13142	.00041	.88071	00094	12350	00451	.00061	00101
	3.000	11799	.00978	.11985	00020	.00052	00053	11885	00360	.00047	00059
	7.500	~.10917	.00928	.09599	00113	.08812	.00009	10954	00219	.00013	.00008
	15.000	09558	.00943	.07571	00199	.00003	.00064	09804	00051	.00009	.00063
	30.000	07473	.00811	.04981	00159	00023	.00075	07517	.00025	00015	.00077
	45.000	06056	.00596	.04076	00107	00000	.00068	06095	.00060	.00007	.00068
	69.000	04792	.00608	.03739	.00012	.00075	.00055	04030	.00104	.00091	.80847
	GRADIENT	.00189	.00011	00477	00021	00008	.00014	.00187	.00031	00007	.00015
			RN/L •	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	DCN	DCA	DCLH	DCY	DCEL	DCYN	DCL	030	DCEL	DCLN
	.000	18939	.60522	.28500	.00979	.00057	00142	18390	01461	.00052	00148
	3.000	18124	.00551	.27896	.00103	.000B7	00113	18082	01347	.00075	00121
	7.500	16562	.00678	.22835	00011	.00051	08042	16542	01057	.00047	00047
	15.600	14284	.00851	.17009	00148	.00014	.0005/	14215	00639	.00020	.00055
	30.600	10892	00844	.10795	00164	00025	.00028	10920	00259	00016	.00090
	45.000	08839	.08778	.07879	00152	00034	.00094	06871	00150	00024	-00097
	60.600	07161	.00712	.05640	00088	00051	.00054	07196	00840	00045	.00059
	GRADIENT	.00319	.00021	00770	00013	00003	.08013	.00315	.00055	00001	.00014

15.000

30.000

45.000

60.000

GRADIENT

-.03441

-.02967

-.01182

.01100

-.00065

~.00295

-.00383

-.00409

.00114

-.00009

-.04209

-.02559

.04599

.34355

.00290

			CA20	(747/1 0	1 51) - (74)	7/13 07	S (055 - 035)	•	(UGN05)	5) (25 M	3V 75 )
	REFEREN	NCE DATA						F	PARAMETRIC	DATA	
LREF -	5508.0080 SG 327.7800 IN 2348.0400 IN 0300	V. YMRP	0	880 IN.XC 800 IN.YC 880 IN.ZC	GRADIENT INT	ierval =	.00/ 12.00	ALPHAC = ELV-1B = ELEVON = PHI = DY =	.000 5.000 .000	EETAC = ELV-OB = MACH = DX = EETAD =	.000 3.000 .600 .000
ALFHAO *	6.600 OZ .000 3.000 7.500	DCN 03191 02673 03718	DCA 00080 00154 00152	DCLM 07717 06596 05508	DCY .00039 .00107 .00059	DCBL 00038 00042 00059	DCYN 00159 00117 00081	DCL 03129 03591 03535	000 00533 00790	DCSL 08654 08652	DCLN 09141 09108

ENVL =	3.25	GRADIENT	INTERVAL		.00/ 12.00
--------	------	----------	----------	--	------------

-.00025

.00058

.00070

-.00110

.00002

-.00075

-.00081

-.00013

-.08883

.00776

-.08881

-.00028

-.00021

.00065

.00425

.00009

-.03635

-.03337

-.02855

-.01093

-.00063

.01064

-.00795

-.00889

-.00892

-.00508

-.00020

.00303

-.00071

-.00079

-.00084

-.00001

-.08081

.00938

-.00069

-.00014

-.00007

.00067

.00224

.000009

ALFNAO =	10.000 OZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	60N 09018 69470 09774 07763 05826 04467 03334 .00141	DCA 00159 00192 00276 00391 00491 00490 00470	ECLM 02497 02085 01649 01521 01252 08605 .09977 .08082	007 .00243 .00158 .00007 00031 00037 .00009 .00077 00032	008L .00035 .00010 00013 00020 00024 .00011 .00082 00066	DCYN08243001620006900017 .000890000200006	DCL 05645 09300 08693 07577 05562 04507 03202 .00148	000 01892 01835 01754 01733 01465 01896 01896 01896	BCSL 00088 00018 00024 00023 00022 .00010 .00080 00002	DCLN 00245 00162 00013 00013 00004 00020
----------	-----------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------------------	----------------------------------------------------------------------------------	----------------------------------------------------------------------------------	-------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------------------------	--------------------------------------------------------------------------------	------------------------------------------------------------

### RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00

	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 69.000 GRADIENT	001 10003 17300 15562 13200 09703 09723 05497 .00242	DCA00168001460037000825005200052500010	00LM .07801 .07813 .05519 .03458 .01224 .00283 00305	00181 .00084 .00088 00112 00164 00080 00055	0001 - 00003 - 00002 - 00003 - 00003 - 00003	DCVN 00255 00103 00101 .00004 .00051 00003 .00020	DCL 17793 17011 15265 16544 05464 07111 05311	BCD 03302 03147 03929 02609 01643 01552 00049	8051. .08042 .08030 .08023 .08083 08817 08084 08081 08082	DCLN 00191 00192 00103 .00003 .00003 .00003
--	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------	---------------------------------------------------------------------------	---------------------------------------------------------------	-------------------------------------------------------------	------------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------	-----------------------------------------------------------------------------------	---------------------------------------------------------------

60.000

GRADIENT

-.05502

.00217

-.00011 -.00009

TABULATED SOURCE DATA - CA20

CA20 (747/1 01 S1) - (747/1)

.00770

-.00326

-.00074

-.00017

-.00005

-.00007

PAGE 753

1 25 NOV 75 1

(UGN056)

			•								
	REFEREN	CE DATA							PARAMETRIC	DATA	
LREF =	5500.0000 SC 327,7808 IN 2348.6460 IN .0300	I. YHRP	<b>.</b> 08	000 IN.XC 000 IN.YC				ALPHAC = ELV-18 = ELEVON = PHI = DY =	8.000 .000 5.000 .000	BETAC = ELV-08 = MACH = DX = EETAO =	.000 3.000 .600 10.000
			RN/L =	3.30	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO =	6.000										
74L11110	DZ	DCN	DĈA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	03492	00253	09943		00008	00201	03395	00856	00043	00197
	3.000	03730	00300	08939		00031	00147	03621	08943	00056	00139
	7.500	03737	00339	07303		08083	00080	03622	00983	00075	00058
	15.000	03538	00377	05624		08069	00039	03419	00985	00075	00026
	39.000	03087	00480	03345		00085	00014	02956	01089	00085	.00001
	45.000	03575	00428	.02040	00138	.00036	.00083	03446	01042	.00050	.00075
	60.000	08575	.00171	.16699	00589	.00510	.00005	05564	00974	.00531	.00359
	GRADIENT	00030	00011	.00351	00017	00007	.00016	05028	00018	00004	.00017
	DHADIENI	00050	00011	.00331	-*00011	00003	.00016	03060	-100010	-100004	.0001
			RN/L =	3.24	GRADIENT IN	ERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	ĐCN	DCA	DCLH	DCY	DCSL	DCYN	DCL	DCD	DCSL	DCLN
	.000	07948	00240	03361	.00146	29888.	00189	07785	01617	.00051	00201
	3.000	07819	00289	02685	.00049	.00058	00105	07650	01642	.00939	60114
	7.500	07420	00364	02103	00051	.00028	00026	07244	01647	.00023	00030
	15.000	06641	00410	01890	00065	.00015	00003	06469	01557	.00015	00006
	30.000	05212	00507	01510	00129	00081	.00033	05044	01405	.00005	.00033
	45.000	04132	00518	00592	00058	.00011	.00022	03980	01228	.00015	.80020
	60.000	03460	00512	.00936	.000+7	.00018	00001	03319	01105	-00017	00084
	GRADIENT	.08072	00017	.00165	00028	000009	.00021	.00074	00004	00004	.00022
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.080										
ALFA40 =	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	oce.	DCLN
	.000	14276	00323	.08506		.00096	00182	14003	02797	.00063	00193
	3.000	13725	00325	.07772	00037	.00075	00110	13461	02703	.90055	00122
	7.500	12661	003B4	.06091	00102	.00873	00041	12401	02577	£2500.	03048
	15.000	11036	00567	.04297	00190	.08080	.00036	10787	02377	.00016	.00034
	30.000	08499	80574	.01926	00223	00016	.00069	- 08289	02041	00004	.00021
	45.000	06640	00615	.01299		00805	.00054	C6432	01759	.00004	-00054
	724000	.00070									

D/S (056 - 035)

-.05312

.00215

.00029

.00019

-.01557

.00029

.00001

-.00003

.00030

.00019

DATE BY DEC 15 TABLETED SOURCE DATA - CALCO

CA20 (747/1 01 S1) - (747/1) D/S (057 - 035)

PAGE 754

(UGN057) ( 25 NOV 75 )

	REFERE	NCE DATA							PARAMETRIC	DATA	
LREF =	5500.0000 S 327.7890 I 2348.0400 I	N. YMRP	00	89 IN.XC 80 IN.YC 80 IN.ZC				ALPHAC = ELV-18 = ELEVON = PHI = DY =	8.000 .000 5.000 .000	ESTAC = ELV-0B = HACH = DX = BETAO =	.000 .003. 000.05 000.05
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.60				
ALPHAO =	6.080										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCST	OCLN
	.080	03670	60484	12776	.00274	00013	00234	03520	01114	08854	00229
	3.000	<b>03896</b>	00484	11156	.002 <b>07</b>	00034	00179	03753	01153	00865	00171
	7.500	03933	00473	09287	.00134	00049	00124	03791	01148	60078	00114
	15.080	03726	00451	07207	.00099	00055	00077	03591	01091	00067	80065
	30.000	03548	00447	03703	00017	00089	00014	03417	01056	00062	00003
	45.080	02727	00447	.00252	00124	00134	.00057	02608	00914	00122	.00000
	60.090	.02629	00741	.00851	.00067	00801	.00056	.02718	00274	00777	.00204
	GRADIENT	00033	.00802	.00461	00018	00005	.00014	08033	00004	00002	.00015
			EN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000										
TOTAL TOTAL	DZ	BCN	DCA	DCLM	DCY	OCBL.	DCYN	ĐCL,	DCD	DCSL	DCLN
	.009	06860	08544	04662	.08093	.08842	00151	05561	01727	.00015	00155
	3.000	05814	08524	03855	08079	.00011	98865	05619	01699	00000	000E5
	7.508	06395	08529	03191	00113	00017	00013	08206	01631	08019	00010
	15.000	06059	00532	02195	00220	00840	.00037	05884	01578	08033	E#000.
	30.000	04653	00538	01515	00199	00035	.00045	04678	01421	00027	.00051
		03902	08523	90285	00131	00044	.00055	03753	01190	00034	.00051
	45.800		00525 00575	.00762	.00019	00082	.00003	03339	01172	08080	.00017
	60.000	03492			00020	00002	.00018	.00063	.00013	00009	.00019
	GRADIENT	.00854	.00002	.00192	00020	00000	.03010	.00002	.00015	,,,,,,,,	
			RN/L =	3.29	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.080										
	DZ	DCN	DCA	DCLM	DCY	DCDL	DCYN	DCL,	DCD	DCSL	DCLN
	.000	12898	00529	.08528	.00065	.00055	00169	11822	02821	.00025	00176
	3,000	-,11687	60558	.07585	00080	.00025	00071	11413	02577	.00012	00074
	7.500	10988	60541	.06279	00169	.60013	.00913	- 10727	02441	.00015	.00010
	15.080	09621	00504	.04430	00235	00005	.00061	09370	02265	.00006	.00261
	30.000	07557	00679	02639	00273	00039	.00087	07324	01991	00023	.00093
	45.000	03109	00578	.01974	00207	00018	.00089	05899	01729	00003	.00099
	60.000	05421	00639	.02203	00120	.00025	.00057	05222	01570	.00036	.00051
	GRADIENT	.00149	00001	00299	00030	00005	.00024	.00146	.00025	00001	.00024
	GINDTENT	.00173		,,,,,,,,	, 40000						

.00028

-.00050

.00390

.00110

.00109

.00063

			CYSO	(747/1	)! S!! -	(747/L) D/S	(058 ~ 035)	!	TUGNSE	8) (25 NG	IV 75 1
	REFER	RENCE DATA					•		PARAHETRIC	DATA	
SREF =	5500.0000	SQ.FT. XHRP	= 1339.90	09 IN.XC				ALPHAC =	4.000	BETAC =	.000
LREF =	327.7800	IN. YHRP	<b>-</b> .00	00 IN.YC				ELV-18 =	.000	ELV-09 =	3.000
BREF =	2348.0400	IN. ZHRP	= 190.80	00 IN.ZC				ELEVON =	5,000	MACH =	.600
SCALE =	.0380							PHI =	.000	DX =	.000
								DY =	10.000	EETAD =	.000
			PM/L =	3.34	GRAD1ENT	INTERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	DCN	DCY	DCLH	ĐCY	DCBL	DCYN	ĐCL	DCD	DCSL	DCLN
	.000	15078	.01548	.10640	0059	.00913	~.08603	15155	00038	.00937	00775
	3.000	14200	.01509	.10555	0069	B .09731	08430	14280	.00016	.00692	00505
	7.500	-, 12747	.01439	.08673	0096	53 .00552	00126	12828	.00099	.00536	~.00183
	15.000	~.10998	.01321	.07065	0100	.00393	.00086	11076	.00164	.00399	.00099
	30.000	08202	.01083	.04477	0113	SB .00177	.00391	08270	.00220	.00217	.00370
	45.000	06338	.08915	.03290	0081	6 .00070	.00348	06399	.00247	.00106	.00339
	60.000	04596	.00759	.02072	0046	708844	.00289	04640	.00275	00013	.00282
	GRADIENT	.00311	00014	00270	0005	008847	.00074	.00311	.00018	00039	.00078
			RN/L =	3.24	GRADIENT	INTERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	-000	23943	.01322	.23874	0150	.01563	01097	23950	01188	.01440	01254
	3.000	22715	.01403	.21892	0120	.01370	00869	22738	00979	.01271	0100B
	7.500	20671	.01458	.19013	0144	8 .01031	00335	20710	00711	.00990	00441
	15.000	17421	.01411	. 14502	0184	2 .00629	.00239	17473	00417	.00650	.00172
	30.000	12716	.01231	.09025	0197	.00228	.00594	12775	00105	.00299	.CCEES
	45.000	09885	.01063	.08342	0145	.00693	.00602	09942	.00024	.00155	.00559

•

-.07891

.00438

.00939

.00018

.04770

-.00647

-.00897

.00003

.08844

-.08071

.00397

.00103

-.07946

.00434

60.000

GRADIENT

GRADIENT

.00267

.00034

-.08474

-.00129

-.00072

.00138

.00262

.00082

-.00057

.00145

PAGE 755

CA20 (747/1 01 S1) - (747/1)	D/5 f	059 -	0351
------------------------------	-------	-------	------

(UGN059) ( 25 NOV 75 )

	REFERE	INCE DATA							PARAHETRIC	DATA	
	5500.0000 5			000 IN.XC				ALPHAC =	4.080	BETAC -	-000
	327.7800 I							ELV-IB =	.000	ELV-0B =	3.000
	2348.0400 1	N. ZMRP	= 190.80	300 IN.ZC				ELEVON =	5.000	MACH =	.600
SCALE =	.0300				·			PHI =	.000	DX =	10.000
								DY =	10.000	EETAO =	-000
			RN/L =	3.32	GRADIENT INT	ERVAL =	.00.11.00				
ALPHAD =	10.000					•					
	DZ	DCN	DCA	DCLH	DCY	DCSL	DCYN	DCL	DCD	DCSL	DCLN
	.600	13097	.01247	.10076	00185	.00768	00724	13156	00129	.00698	00800
	3.003	12574	.01264	.09836	00317	.00533	08508	12637	00957	.66577	00553
	7.500	11287	.01185	.08251	08582	.00485	00218	11349	00001	.00459	00267
	15.000	09826	.01144	.05602	00726	.00352	.00012	09361	.00104	.00352	00025
	30.000	07575	.00956	.04619	01027	.00128	.00353	07633	.00159	.00165	.00347
	45.000	06016	.00822	.03005	00782	.00035	.00334	06069	.00188	.00078	.00323
	60.000	0465 <del>9</del>	.00709	.01229	03514	00659	.0028t	04718	.00218	00028	.00225
	GRADIENT	.00245	00009	00252	00053	00037	.00087	.00244	.00017	00030	.00071
			RN/L =	3.25	GRADIENT INT	ERVAL =	.107 18.00				
ALPHAO =	14.080										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	19516	.08844	.22001	00263	.01356	01266	19498	01201	alsio.	01401
	3.000	18985	.00251	.21034	00367	.01.29	00922	18992	01029	.01026	01034
	7.500	17544	.01093	.18506	01194	.00817	00240	17563	00741	.00763	00324
	15.000	15129	.01141	.14289	01670	.00497	.00293	15165	00447	.00524	.00240
	30.000	11355	.00999	.02824	01857	.00150	.00691	11397	00195	.00221	.00851
	45.000	09002	10880.	.06376	01388	.00045	.08585	09046	00045	.00105	.00577
	60.000	07288	.00814	.04564	00808	.00085	.00359	07333	.00048	.00044	-00355

ORIGINAL PAGE IS OF POOR QUALLING DATE 04 DEC 75

GRADIENT

TABULATED SOURCE DATA - CA20

-.00027

-.00349

-.00086

-.00061

.00136

.00345

.00034

-.00036

.08144

CA20 (747/1 0: SI) - (747/1)

PAGE 757

(UGN060) ( 25 NOV 75 )

	REFERE	NCE DATA							PARAHETRI (	DATA	
LREF =	5500.0000 S 327.7800 II 2348.0400 II .0300	N. YHRP	00	100 IN.XC 100 IN.YC 100 IN.ZC				ALPHAC = ELV-18 = ELEVON = PH1 = DY =	8.000 .000 5.000 .000	BETAC = ELV-03 = MACH = DX = BETAO =	.009 3.000 .600 .000
			RN/L =	3.23	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO *	10.000										
	ÐZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.080	09245	00261	02183	01121	.00305	00438	09059	01662	.00225	00484
	3.000	08857	00354	02289	01082	.00254	00263	08661	01886	.00284	00303
	7.500	08244	00438	02653	00969	.00204	00132	08043	01863	.00178	08165
	15.000	06931	00601	02513	01075	.00095	.00143	06721	01795	.00119	.00125
	30.000	05384	00687	02332	01206	00059	.00404	05183	01612	.00004	.00410
	45.000	04087	80707	01579	00605	08043	.00196	03902	01406	~.00008	.00200
	60.000	02802	00692	00699	.08050	00012	00033	02641	01159	00017	00030
	GRADIENT	.00134	00023	00054	.00021	00013	.60040	.00136	.00000	00006	14889.
		-	RN/L =	3.20	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAD =	14.000										
	DŽ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	17016	00228	.06242	01491	.01011	00897	18717	03179	.00840	01059
	3.000	16173	00272	.05216	01854	.00756	00355	15880	03076	.00693	00481
	7.500	14450	00422	.03631	02147	.00547	.00137	14157	02925	.00563	.00040
	15.000	13153	00437	.0:888	02217	.00294	.00498	12877	02715	.00376	.00440
	30.000	08834	00765	00105	01829	.00065	.00628	08567	02288	.00173	.00697
	45.000	06701	00771	00416	01206	00014	.00452	06544	01937	.00055	.00447
	60.000	05369	80717	00559	00609	08005	.00207	05163	01638	.00031	.00205
	COADICNE	00766	- 00007	- 00700	- 000000	00001	40.70				

9/5 (060 - 035)

TABULATED SOURCE DATA - CARD

CARO (747/1 01 S1) - (747/1) D/S (061 - 035) (UGNOS1) ( 25 NOV 75 )

PAGE 753

### REFERENCE DATA

SREF LREF BREF SCALE	<b>3</b>	5500.0000 SQ.FT. 327.7800 IN. 2348.0400 IN. .0300	XMRP VMRP ZMRP	*	0009.9EE1 0000. 0008.091	IN.YC	ALPHAC ELV-18 ELEVON PHI DY		8.000 .000 5.000 .000	EETAC ELV-09 MACH DX EETAO	# #	.000 3.000 .600 10.000
-------------------------------	----------	------------------------------------------------------------	----------------------	---	--------------------------------	-------	-----------------------------------------	--	--------------------------------	----------------------------------------	--------	---------------------------------

# RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 66.000 GRADIENT	DCN 07379 07131 06622 05977 04403 03399 01886 .00102	DCA00434004730053200538007160051700013	DCLM 03084 02911 02835 03045 02539 01459 .00089	DCY0059100617006340070800988004740002700005	DCBL .00309 .00274 .00220 .00123 00006 00008 00028	DCYN005130036800203 .00031 .00312 .00137 .00037	DCL 07192 06941 05429 05577 04291 03231 01769 .00103	DCD 01709 01704 01674 01649 01484 01197 00837	00215 .00215 .00206 .00182 .00127 .00048 .00017 00022	DCLN 00559 00410 00238 .00009 .00309 .00136 .00041
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------	----------------------------------------------------------------------	---------------------------------------------	-------------------------------------------------------------------------	-------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------	----------------------------------------------------------------------------	-------------------------------------------------------------------------

# RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00

ALPHAC =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN13143126271165609428076590555504624 .00200	0CA 00489 00497 00590 00768 00731 00743 00593 00014	OCLH .05520 .05765 .04177 .02132 .00449 .00265 00224 00316	0CY0109901445017710204301790011310061600068	0CBL .00716 .00559 .00413 .00193 .00907 00921 .00001	DCYN 00707 00285 .00110 .00495 .00608 .00425 .00181	DCL 12859 12349 11377 09152 07416 05440 04647 .00199	DCO 02783 02682 02605 02394 02050 01714 01422 .00021	00582 .00582 .00501 .00425 .00276 .00113 .00053 .00032	DCLN 0021 00378 .00036 .00454 .00598 .00422 .00178
----------	--------------------------------------------------------------------------------------------	-----------------------------------------------	-----------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------------	---------------------------------------------------------------------------	--------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------------------------	-------------------------------------------------------------------------

### TABULATED SOURCE DATA - CA20

CA20 (747/1 01 S1) - (747/1) D/S (062 - 034) (UGN052) ( 25 NOV 75 )

PAGE 759

		CYSO	174771 01	1 517 - 1747	//1) U/S	(062 - 034)		OGNOE	21 (25 N	V 75 )
REFERE	NCE DATA							PARAMETRIC	DATA	
SREF = 5500.0000 S	Q.FT. XHRP	= 1339.9	000 IN.XC				ALPHAC =	4.000	BETAC =	-5.000
LREF = 327.7800 !!	N. YMRP	<b>-</b> .6	DDO IN.YC				ELV-18 =	.000	ELV-08 =	3.000
BREF = 2348.0400 II	N. ZMRP	= 190.8	000 IN.ZC				ELEVON =	5.000	MACH =	.600
SCALE # .0300							PHI =	.000	DX -	.000
							DY =	.000	EETAO -	.000
		RN/L =	3.22 0	RADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 10.000						,				
02	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
.000	15494	.01227	.11263	.01589	.00130	.08077	15537	00400	.00137	.00063
3.000	- 45185	.01278	.11319	.01480	.00172	00182	15235	00318	.00152	00199
7.500	13726	.01339	.08968	.01049	.00133	00166	13791	00103	.00115	08179
15.000	11896	.01306	.07107	.00754	.00137	00180	11961	.00955	.00118	00193
30.000	08908	.01128	.04800	.00242	.00097	00065	08977	.00191	.00089	00075
45.000	07002	.00951	.03902	00086	.00001	.00082	07064	.00224	.00009	18000-
60.000	04966	.00810	.03042	00822	00161	.00441	05024	.00286	00114	-06455
GRADIENT	.60243	.00015	00323	00073	00000	00030	.00240	.00040	00003	00029
		RN/L =	3.23 G	RADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 14.000										
9Z	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
.000	22904	.01327	. 19066	.01612	.00121	.00121	22917	01074	.00133	.00108
3.000	22581	.01270	. 19923	.01536	.00216	00163	22590	01097	.00198	00185
7.500	21212	.01286	.18518	.01317	.00225	00318	21230	00938	.00191	00340
15.000	10260	.01453	. 14826	.00599	.00151	00110	18312	00464	.00139	00125
30.000	13472	.01375	.09777	.00004	.00050	.00071	13542	00041	.00057	.00066
45.000	10375	.01193	.06932	00099	.08040	.00067	10443	.00102	.00048	.00062
60.000	08192	.01053	.05357	00196	00024	.00115	08257	10101	00011	.00117
GRADIENT	.00232	00005	00078	00040	.00013	00057	.00231	.00019	.00007	00058

---

CA20 (747/1 01 S11 - (747/1) D/S (063 - 034)

GRADIENT

.00176

.00033

-.08412

(UGN083) ( 25 NOV 75 )

.00052

.00172

-.00001

-.00037

	REFERE	NCE DATA							PARAMETRIC	DATA	
LREF =	500.0000 S 327.7800 I 348.0400 I	N. YMRP	00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.000 .000 5.000 .000	BETAC = ELV-09 = MACH = DX = BETAO =	-5.000 3.000 .600 10.000
			RN/L =	3.39	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL,	DCLN
	.000	12463	.04896	.09955	.01434	.00864	.00124	12489	00412	.00077	.00117
	3.000	12422	.00919	.10582	.01417	.00117	00175	12450	00385	.0009	00187
	7.590	11462	.01014	.08701	.01020		00143	11505	00190	.00087	00153
	15.000	09973	.00974	.08775	.00825	E8000.	00221	10020	~.00073	.00055	00229
	30.000	07636	.00903	.04496	.00397	.00111	00154	07688	.00089	.00094	00165
	45.000	05985	.00800	.03533	00005	.00017	.00039	05036	.00170	.00021	.00036
	60.080	04550	.00679	.02715	00171	00080	.00111	04598	.00200	00048	.00116
	GRADIENT	.00140	.00016	00187	00056	.00004	00032	.00137	.00031	.00001	00032
			RN/L □	3.27	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	OCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	18958	.00674	.22442	.01876	.00141	00826	18922	01311	.00139	00040
	3.000	18625	.00749	.2!295	.01799	.00185	00302	18601	01202	.00153	00320
	7.500	17650	.00922	. 19365	.01357	.00164	00323	17659	00929	.00130	00339
	15.000	15478	.01128	. 15356	.00530	.00091	00847	15511	00496	.00065	00055
	30.000	11709	.01150	.09949	.00180	.00063	00843	11765	00080	.00058	00049
	45.000	09176	.01846	.07222	00083	.00025	.08847	09235	.00082	.00029	.00044
	60.000	07345	.00935	.05416	00DBC	00012	.00054	07403	.00162	00006	.00055
								66186	00000	00001	000777

.00002

-.00037

<del>----</del>

-.08071

'1 m. .

### TABULATED SOURCE DATA - CA20

PAGE 761

PARAMETRIC DATA

CYSO	(747/1	10	5!)	-	(747/1)	D/S	(064	- 0341
------	--------	----	-----	---	---------	-----	------	--------

(UGN064) ( 25 NOV 75 )

HEF	ER	ENCE	DATA
-----	----	------	------

### ALPHAC = 4.000 BETAC = SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC 3.000 .000 ELY-08 -ELV-18 \* LREF \* 327.7800 IN. YHRP = .0000 IN.YC ZMRP = 190.8000 IN.ZC ELEVON = 5.000 MACH = .600 BREF = 2348.0400 IN. DX -20.000 .000 .0300 SCALE = .000 EETAO =

### RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000							•			
_	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	ĐCL	DCD	DCSL	DCLN
	.000	11278	.00844	.08856	.01020	.00137	?0002	11304	00339	.00136	00016
	3.000	10856	.00261	.08140	.00938	.00141	00080	10887	00279	.00132	00095
	7.500	10168	.00874	.06939	.00817	.00139	00183	10204	00193	.00118	00197
		09098	.00927	.05644	.00590	.00127	00165	09145	00029	.00109	00178
	15.000				00003	.00067	.00045	07384	.00136	.00071	.00038
	30.000	07329	.00907	.03941					.00202	.00023	.00086
	45.000	06028	.00837	.03289	00109	.08014	.00088	06082			
	60.000	04792	.00740	.02943	.00075	.08029	00001	04843	-00235	.00028	00004
	GRADIENT	.00148	.00004	00256	00027	00000	08024	.00147	.00019	00003	00024

# RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.000										
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL.	DCLN
	.000	16931	.08470	.20862	.01733	.00428	00617	16887	01302	.00361	00659
	3.000	16356	.08478	.20395	.01417	.00352	00476	16317	01234	.00300	00510
	7.500	15255	.00515	.17902	.00969	.00287	00297	15236	00993	.00255	00328
	15.000	13537	.00828	.14186	.00266	.00181	00007	13550	00592	.00100	00028
	39.000	10656	.00914	.09440	00238	.00889	.00149	10703	00286	.00104	.00139
	45.000	08634	.85544	.07260	00232	.80846	.00130	08675	00063	.00059	.00125
		0710B	.00766	.05425	00185	.00013	.00112	07150	.00020	.00025	.00110
	60.000				00102	00018	.00042	.00222	.00044	00014	-00844
	GRADIENT	.00225	.00020	00487	00102	~*00010					

CA28 (747/1 81 S1) - (747/1) D/S (085 - 034)

(UGN065) ( 25 NOV 75 )

### REFERENCE DATA

60.000

GRADIENT

-.06706

.00262

-.00469

.00006

.01394

-.00277

-.00246

-.00178

.00225

-.00006

.00155

.00019

-.05523

.00257

-.01626

.00051

.0024B

-.00002

.00114

.00020

### PARAMETRIC DATA XMRP = 1339.9800 IN.XC SREF . 5500.0000 SQ.FT. ALPHAC = 8.000 BETAC = -5.000 LREF = 327,7800 IN. YMRP = .0000 IN.YC ELV-18 -.000 ELV-09 = 3.000 ZMRP = BREF = 2348.0400 IN. 190.8000 IN.ZC ELEVON = 5.000 MACH .600 SCALE = . OBDD PHI .000 Dх .000 ŊΥ .080 EETAO = .000 RN/L = 3.22 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.009 ĐZ DCN DCA OCLH DCY DCBL DCYN DC1. DCD DOSL DCLN -.10579 .00100 -.00523 .000 .01417 .00042 .00253 -.1043B -.01739 .00085 14500. 3.080 -.10399 .00039 -.00348 .00983 .00086 .00135 -.10247 -.01768 .00108 .00118 7.500 -.09716 -.00034 -.00679 .00560 .00095 .00129 -.09852 -.01720 .00116 .00111 15.000 -.06712 -.00116 -.00737 .00247 .00192 .00044 -.08560 -.01627 .00197 .00010 30.000 -.06749 -.00256 -.00307 -.00375 .00162 .00278 -.06602 -.01424 .00208 .00246 45.000 -.05259 -.00397 .00032 -.00222 .00236 .00187 -.05110 -.01304 .00255 .00143 60.000 -.03716 -.00539 .00000 -.00110 .00278 .00118 -.03558 -.01176 .00294 .00058 GRADIENT .00118 -.00018 -.00025 -.00113 .00007 -.00015 .00119 .00003 .00004 -.00016 RN/L = 3.23 GRADIENT INTERVAL = 00.SI \CO. ALPHAO = 14.000 DZ **BCN** DCA DCLM DCY DCBL DCYN DC1 DCD DCSL DCLN .000 -.18729 .00063 .09707 .02131 .00163 -.00075 -.18455 -.03190 .00147 -.00102 3.000 ~.18294 .00095 .08268 .01697 .00125 -.00215 -.18033 -.03083 .00146 -.00244 7,500 -.16808 .00108 .06678 .08807 .00124 .00043 -. 16571 -.02812 .00130 .00021 15.000 -. 14654 .00048 .04673 .08073 .00129 .00179 -.14438 -.02505 .00159 .00154 30.000 -.11109 -.00181 -.00182 .0289B .00176 .00150 -.10909 -.02107 .00199 .00117 45.000 -.08634 -.00445 -.00352 .01841 .00155 .00243 -.06441 -.01646 .00195 .00212

ORIGINAL PAGI I

PAGE 763

CA20 (747/1 01 SI) - (747/1) 0/5 (066 - 034)

(UGN066) ( 25 NOV 75 )

	DATA

### PARAMETRIC DATA

	REFEREN	CE DATA							PARATE INIC	UAIA	
LREF =	5500.0000 SO 327.7800 IN 2348.0400 IN .0300	. YMRP	80	BO IN.XC BO IN.YC BO IN.ZC				ALPHAC = ELEVON = PHI = DY =	8.000 .000 5.000 .000	BETAC = ELV-08 = HACH = DX = BETAO =	-5.000 3.000 .600 10.000
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000										
ALL TANG	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.880	08478	00241	01655	.01140	.00171	.00326	08307	017.0	.00225	.00292
	3.000	08519	00272	01235	.00810	.00200	.00205	08342	01747	.00232	.00167
	7.500	09177	00310	01307	.00543	.00206	.00130	07999	01725	.00225	.00022
	15.000	07370	00352	01401	.00389	.00286	.00014	07197	01627	.00284	00035
	30.000	08076	00368	00492	00180	.00203	.00187	05920	01417	.00232	.00148
	45.000	05017	00433	00028	00129	.00167	.00135	04866	01298	.00187	+0100-
	60.000	04155	08410	00260	00093	.00127	.00080	04021	01126	.00138	.00057
	GRADIENT	.08843	00009	.00041	00078	.00004	00025	.00044	00002	00000	00026
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.080										
	DZ	DCN	DCA	DCLH	DCY	DCBL.	DCYN	DCL	BCD	DCSL	DCLN
	.080	15094	00408	.09070	.02023	.00206	00120	14794	03023	.00182	00154
	3.000	-, 14781	00351	.08512	.01660	.00231	00229	14494	02923	.00188	00288
	7.500	13914	00287	.07209	.00951	.00167	08080	13652	02693	.00154	00083
	15.000	12319	80280	.05137	.00304	.00177	.00075	12083	02415	.00187	.00843
	30.000	09711	00343	.03418	.00060	.00193	.00038	09504	02024	.00197	-00004
	45.000	07978	00379	.02550	00226	.00120	.00177	07789	01759	.00149	.00154
	69.000	05464	00379	.01785	00111	.00099	.00100	06300	01496	.00115	.00091
	GRADIENT	.00160	.00016	00251	00144	00006	.00010	.00155	-00044	00004	.00011

PAGE 784 TABULATED SOURCE DATA - CA28 DATE 04 DEC 75

CAEO (747/1 01 51) - (747/1) D/S (067 - 034)

(UGN067) ( 25 NOV 75 )

.00003

-.00011

.00147

.00033

### PARAMETRIC DATA REFERENCE DATA

	KEPENSING	E UNIA									
LREF -	500.0000 SQ. 327.7800 IN. 348.0400 IN. .0300	YHRP	■ .00	09 IN.XC 08 IN.YC 08 IN.ZC				ALPHAC = ELEVON = PHI = DY =	9.809 9.800 5.800 .000	BETAC = ELV-0B = MACH = DX = EETAO =	000.2- 000.8 000. 000.08
			RN/L =	3.28 (	RADIENT INTE	RVAL -	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 50.000 45.000 60.000	9CN 07815 07853 07777 05911 05924 04976 04380 .00008	DCA00303007 3007 400320002400346503220009	DCLM 03703 02752 02116 01753 00388 00099 00505 .00206	DCY .08517 .00321 .00343 .00246 00281 00272 00201 00021	DC9L 00020 .00029 .00005 .00073 00017 00063 00021	DCYN .60297 .00184 .00051 00002 .00199 .00145 .00081	DCL 07644 07774 07616 06749 05792 04641 04257 .00006	DCD 01655 01712 01591 01523 01265 01205 01078	0091 .00032 .00061 .00014 .00072 .00018 00035 00007	BCLN .00296 .00176 .00049 ~.00015 .00159 .00154 .00054 ~.00033
			RN/L =	3.29	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO ≠	14.00 02 .00° 3.800 7.500 15.000 30.000	OCN 13373 12073 12193 10962 08776	DCA 08457 00381 00276 00223 00235	0CLM .08430 .07512 .06537 .05494 .04174	DCY .01545 .0163 .00631 00385	DCBL .60203 .60124 .06077 .06030 .00015	0CYN 00345 00235 00116 .00101 .00220	DCL 13090 12611 11960 10757 06502 07202	0CD 02772 02611 02399 02123 01755	DCSL .00140 .00081 .00055 .00047 .00054	DCLN 00375 00383 00183 .00094 .00214

-.00352

-.00298

-.00122

.03283

.01959

-.00235

-.07359

-.06978

.00157

45.000

60.000

GRADIENT

-.00257

-.00273

.00024

.00229

.00146

.00030

.00084

-.00023

-.00016

-.07202

-.05938

.00150

-.01324

.00051

TABULATED SOURCE DATA - CA20

CA20 (747/1 01 51) - (747/1) D/S (058 - 034) (UGN058) ( 25 NOV 75 )

PAGE 765

			0,20		J. J.,		1000 - 051	,	1001101	N C3 7 100	20 13 1
	REFER	ENCE DATA							PARAMETRIC	DATA	
SREF .	5500.0000 9	SQ.FT. XHRP	= 1339.9	000 IN.XC				ALPHAC .	4.000	BETAC -	-5.000
LREF =	327.7800	IN. YMRP	0	BOD IN.YC				ELV-IB =	.000	ELV-08 -	3.000
BREF = 1	2348.0400	IN. ZMRP	= 190.8	800 IN.ZC				ELEVON .	5.800	MACH =	.600
SCALE -	.0380							PHI #	.000	DX =	.000
								DY •	10.000	ESTAD =	.000
			RN/L =	3.29	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	DCN	DCA	DCLH	DCY	DCBt.	DCYN	DCL	DCD	DCSL	DCLN
	.000	14040	.01453	.03531	~.00284	.00797	00258	14115	00022	.00768	00340
	3.600	13265	.01461	.03707	00436	.00734	00171	13345	.08065	.00712	00247
	7.500	11977	.01457	.03600	00779	.08597	.00046	12063	.00197	.00599	08015
	15.000	10458	.01394	.03691	01189	.00391	.00309	10545	.00283	.00411	.00269
	30.000	08047	.01191	.03370	01405	.00104	.00585	08127	.00344	.00165	.00571
	45.000	06338	.08995	.02682	00828	.00050	.63333	06406	.00317	.08065	.00322
	60.000	04710	.00780	.02098	00090	.00020	00017	04766	.00283	.80018	00019
	GRADIENT	.00276	.00000	.60007	00067	00028	.00041	.00274	.00029	00024	-00044
			RN/L =	3.22	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO *	14.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	.000	21377	.01430	.10697	00776	.01357	00507	21410	00812	.01297	00646
	3.000	20535	.01380	.11167	00739	.01240	00489	20567	00774	.01182	00616
	7.500	18964	.01401	.10504	01183	.01069	00158	19006	00539	.0103B	00269
	15.000	16344	.01443	.08791	01990	.00739	.00409	16405	00273	.00777	.00330
	30.000	12336	.01387	.06416	03141	.00101	.01342	12414	.00090	.00241	.01385
	45.080	09797	.01224	.05407	01878	.00003	.08844	09871	.00193	.00091	.00839
	60.000	07861	.01025	.04225	00814	.00031	.00326	07926	.00199	.00065	.00321
	GRADIENT	.00324	08003	08035	00059	00040	.08049	.00323	.00031	00034	.00053

CA20 (747/1 01 S1) - (747/1) D/S (059 - 034) (UGN359) ( 25 NOV 75 )

-.07408

.00165

60.000

GRADIENT

.00899

.00023

.84599

-.00120

-.00798

-.00083

-.00007

-.80024

	REFERE	NCE DATA							PARAMETRIC	DATA	
SREF =	5500.0000 S	Q.FT. XHRP	- 1339.90	OD IN.XC				ALFHAC =	4.000	EETAC -	-5.000
LREF =	327.7880 1		00	00 IN.YC		_		ELV-18 -	.000	ELV-09 =	3.000
EREF =	2348.6400 1			00 IN.ZC				ELEVON =	5.000	MACH .	.600
SCALE -	.0300							FH1 =	.000	ex =	10,000
	10200							DY =	10.080	EETAO =	.000
			RN/L =	3.25	GRADIENT INT	TERVAL +	.00/ 12.00				
ALPHAO :	10.000										
	DZ	DCN	DCA	DCLH	DCY	DCSL	DCYN	DCL	CD	DCSL	DCLN
	.000	12089	.01078	.04181	.08029	.00612	00284	12133	00194	.00579	00346
	3.000	11681	.01115	.04432	08085	.00595	~.00253	11713	00110	.00555	00313
	7.590	10735	.01166	.03871	00451	.00491	00036	10798	.00037	.00465	00087
	15.000	69513	.01123	.04023	00917	.00320	.00224	09578	.00122	.00341	.00169
	30.000	07536	.01052	.03346	01285	.00079	.00464	07694	.00259	.00129	00473
	45.000	05957	.00976	.02664	00808	.00021	.00319	06125	.00237	. 08054	.00315
	60.000	64754	.00701	.02493	00151	.00005	.00024	64801	.00200	.00008	.00023
	GRADIENT	.00162	.00012	00048	00065	00017	.00034	.00180	.00031	00013	.00035
			RN/L =	3.25	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO :	<b>14.000</b>										
	DZ	DCN	DCA	DOLH	DCY	DCEL	DCYN	DCL	DCD	DCSL	DCLN
	.080	17940	.00818	.13316	00285	.01054	00502	17927	01062	.00535	00610
	3.000	17620	.00804	. 13764	00207	.01010	00534	17607	01042	.00549	00537
	7.500	!6593	.00979	. 12514	00794	.00876	00173	16594	00760	.00653	00263
	15.000	14541	.01125	.10116	~.01655	.00573	.00353	14579	00401	.00607	.00291
	30.000	11217	.011E6	.07117	02854	.00021	.01246	11277	00013	.00151	.01237
	45.000	09105	.01052	.05835	01602	00018	.00702	09165	.00095	.00056	.00700
									~~~~		

.00300

.00047

-.07462

.00101

.00120

.00042

.00024

-.00019

.00300

.00049

.

TABULATED SOURCE DATA - CA20

CA20 (747/1 01 S1) - (747/1) D/S (070 - 034) (UGN070) ( 25 NOV 75 )

PAGE 767

		REFERENC	E DATA							PARAMETRIC	DATA	
ORIGINAL' P. OF POOR QU	LREF -	327.7800 IN. 3248.0400 IN. .0300	. YHRP	.00	90 IN.XC 900 IN.YC 900 IN.ZC	GRADIENT INTE	ERVAL =	.00.12.00	ALPHAC = ELV-1B = ELEVON = PH1 = OY =	8.000 .000 5.000 .000 10.000	BETAC = ELV-OB = MACH = OX = EETAO =	-5.600 3.000 .600 .900
C PAGE TE	ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 10370 09978 09382 68473 06718 05294 03809 .00132	DCA .00169 .00087 .00030 00031 00197 00329 00465 00018	DCLA 04712 04211 03435 02053 00856 00556 00500 .00170	DCY0085701013012540152801322007910021100053	DC8L .00426 .00419 .00361 .00233 .00108 .00111 .00169 00009	DCYN .00047 .00130 .00307 .00530 .00556 .00348 .00109 .00035	DCL 10242 05842 09245 08344 06592 05156 03667 .00133	000 01634 01697 01600 01503 01361 01243 01139 .00005	DCSL .00427 .00435 .00409 .00321 .00203 .00170 .00184 00003	OCLN 00028 .00055 .00239 .00481 .00529 .00354 .00079
	ALPHAO =	14.000 02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 18651 17568 16002 13829 10784 08466 06720 .00353	DCA .00272 .00259 .00208 .00131 00001 00180 00309 00009	DCLH .03168 .03077 .02338 .01876 .01999 .01321 .00933 00115	DCY0136401577019610266202793013910081200080	008L .08955 .00845 .00570 .00370 .00028 .00092 .00102	DCYN 09248 09011 .00323 .00867 .01228 .00599 .00342	DCL 16415 17346 15795 13642 10621 08306 06554 .00349	DCD 02971 02795 02574 02272 01873 01648 01471	DCSL .00697 .00930 .00715 .00523 .00241 .00193 .00160 00024	DCLN 08410 00157 .00202 .00763 .01205 .00565 .00319

CA28 (747/1 01 SI) - (747/1) D/S (871 - 034) (UGN071) ( 25 NOV 75 )

CC	ccci	MAE.	DA1	P.A

### 8.000 BETAC = -5.000 SREF \* 5500.0000 SO.FT. XHRP = 1339.9800 IN.XC ALPHAC = 3.000 .000 ELV-09 -ELV-IS = YHEP = .0000 IN.YC LREF = 327.7800 IN. 5.000 MACH -.600 ELEVON \* ZHRP - 190.8000 1N.ZC EREF = 2348.0400 IN. .000 DX 19.000 PHI \* SCALE = COEO. .800 DY 10.000 EETAD =

PARAMETRIC DATA

### RN/L = 3.85 GRADIENT INTERVAL = .80/ 12.88

ALPHAO =	10.000 0Z .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	BCN08371085630826507479061720467603593 .00083	DCA 00063 00095 00120 00146 00299 00469 00009	00LM 04642 04052 03217 02218 00901 00516 00430 .00190	DC*005540072*009710121801283008280082800855	0084 .00295 .00299 .00262 .00187 .00033 .00048 .80137 00065	00014 .00014 .00085 .00227 .00397 .00527 .00346 .00204	001. 08732 08521 08113 07343 08053 04750 03454 .00083	DCD 015E8 015E9 01527 01417 01216 01140 01165	0051 .00293 .00309 .00297 .00253 .00129 .00107 .00171	00LN 00038 .00032 .00178 .00569 .00512 .00335 .00177
----------	--	---	--	---	---	---	---	---	--	--	---

# RN/L = 5.25 GRADIENT INTERVAL = .00/ 12.00

ALFHAO =	9.000 92 .000 3.000 7.590 15.000 30.000	0CN 15055 14485 13368 11628 69643 07665	ECA 00065 00041 00032 00027 00037	0CLM .64767 .04473 .03521 .02872 .02799 .01549	DCY 09876 01084 01623 02332 02399 01303	0091 .00572 .00513 .00469 .00258 80807	DCYN 00195 00045 .00302 .00763 .01038 .00533	DCL 14855 14258 13159 11642 09490 07540	DCD 02595 02595 02393 02080 01710 01499	0051 .00828 .00595 .00514 .00390 .00173	00309 00150 .00216 .00728 .01023
	30.000 45.000 69.000 GRADIENT	69543 07665 06292 .00232	08037 00164 00272 .00604	.02799 .01579 .01251 .02195							

F-----

TABULATED SOURCE DATA - CAZO

(UGN072) ( 25 NOV 75 ) CA20 (747/1 01 S1) - (747/11 D/S 1072 - 0361 PARAMETRIC DATA

PAGE 759

### REFERENCE DATA

### 5.000 4.000 BETAC = ALPHAC = SREF - 5500,0000 SQ.FT. XHRP - 1339,9000 IN.XC 3.000 ELV-08 = .000 ELV-18 = .600 .0000 IN.YC 5.000 MACH = AHUD \* ELEVON = LREF - 327.7888 IN. ZMRP - 190.8800 IN.ZC .000 .000 DX BREF = 2348.0400 IN. PHI .000 BETAO -10.000 .0300 SCALE -

### .09/ 12.00 RN/L = 3.28 GRADIENT INTERVAL =

ALPHAO =	10.000 02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	OCN14442136451216610477078690521804502 .00305	DCA .01562 .01510 .01392 .01208 .0076 .00797 .00592 00023	DCLH .13294 .11916 .69511 .05424 .03467 .02461 .01642 60507	DCY 00501 00631 01175 01253 01305 00952 00304 00092	008L .00961 .00766 .00541 .00366 .00161 .00077 .00023	OCYN 01087 00724 00198 .00131 .00413 .00312 .00157	OCL 14526 13728 12245 10546 07927 05267 04529 .00306	00044 .00076 .00112 .00103 .00148 .00143 .0018	005L .00842 .00695 .00518 .00576 .00193 .00109 .00040 00843	OCLN 01162 00900 00953 .00092 .00393 .00154 .00124
----------	--	---	---	---	---	--	---	--	--	---	---

# RN/L = 3.22 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.000 DZ .880 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN2325922456205517210127360955907626 .00356	DCA .01290 .01337 .01390 .01417 .01224 .01035 .00897 .00013	DCLM .25676 .24606 .21678 .15136 .08470 .05359 .03628 00599	0CY 09502 00555 01263 01457 01525 01203 00764 00104	008L .01536 .01285 .00942 .00605 .00269 .00139 .00095	DCYN 01804 01251 00431 .00059 .00469 .00313 .00183	DCL 23267 22473 20593 17264 12794 09913 07877 .00393	0CD 01148 01017 00765 00359 00114 00001 .00075	0051 .01339 .01147 .00392 .00507 .00315 .00167 .00128	DCLN 01955 01379 00527 00013 .00420 .00451 .00301
----------	--	--	---	---	---	--	---	--	---	--	--

----

CA20 (747/1 01 S1) - (747/1) D/S (073 - 036

(UGN073) 1 25 NOV 75 1

REFERENCE DATA	F	PARAMETRIC	DATA	
	ALCSJAC	ս որո	FETAC	

					1339.9000	10. 90	ALPHAC (	•	4.080	EETAC	=	5.000
SREF	•	5500.0000 SQ.FT.	741 W 4-	-			ELV-18 (	-	.080	ELV-09	=	3.000
LREF	•	327.7880 IN.		*		IN.YC	ELEVON :		5.000	MACH	-	.600
EREF	-	2348.8480 IN.	ZMRP		150.8000	IN.ZC	PHI	_	_	DX		10.000
SCALE	-	.0300					DA .	_	10.000	EETAO		.000
							י וע	-	10.000			

# RELYL = 3.24 GRADIENT INTERVAL = .807 12.00

alfi+a0 ≈	10.000 0Z .000 3.000 7.500 15.000 30.000 45.000 60.000	DCN132231278911659102050793390635804659 .00208	DCA .01258 .01240 .01172 .01032 .00931 .00720 .00604	DCLM .13731 .12905 .10506 .07349 .03974 .02857 .02878	DCY .00164 08099 08559 00950 01122 00930 00568 00112	00963 .00995 .00990 .00335 .00113 .00047 00011	OCYN 01259 00970 00339 .00047 .00356 .00315 .00246 .00122	DCL 13262 12549 11747 10257 07932 05428 04935 .00208	DCD 80131 80104 08065 0809 08093 .00048 .00089	005L .00727 .00601 .00461 .00338 .00150 .00079 .00015	DCLN 01542 00933 00390 .00012 .00342 .00303 .00246 .00127
-----------	--	--	---	--	--	--	---	--	---	--	---

# RN/L = 3.25 GRADIENT INTERVAL = .60/ 12.00

ALPHAO =	19.000 DZ .000 3.000 7.500 15.000 30.090 45.000 60.000 GRADIENT	6CN 19719 19183 17598 15013 11968 09849 07267 .00295	DCA .00917 .00959 .01107 .01114 .00943 .00221 .00748 .80025	DCLH .85802 .24814 .80800 .14923 .06441 .05905 .03845	DSV .00136 00146 00835 01215 01471 01157 00857 00131	008L .01280 .00995 .00706 .00452 .00159 .00047 .00003	DCYN016570115200435 .00047 .08466 .00444 .00334	DCI. 19707 19182 17567 15048 11464 08996 07306 .00291	01149 01017 00734 00462 00265 00119 00016	DCSI. .01019 .80E59 .00E5 .00E5 .00E05 .00E05 .00E05	DCLN 01784 0159 00507 00000 .00447 .00428 .00332
----------	--	--	---	--	--	--	---	---	---	---	---

٠---

TABULATED SOURCE DATA - CARO

(UGN974) ( 25 NOV 75 ) CA20 (747/1 01 S1) - (747/1) D/S (074 - 038) PARAMETRIC DATA REFERENCE DATA 5.080 8.000 BETAC -ALPHAC = 1000 - 1339.5808 IN.XC SREP - 6500.0800 99.FT. .000 ELV-09 = 3.000 ELV-IB = " CT? .0000 IN.YC LEEF . E27.7800 IN. .600 ELEVON = 5.000 HACH ZICT = 120.0000 IN.ZC EREF - 2018.0400 IN. ĐΧ .000 PHI .000 .0220 SCALE -.000 BETAO = DY 10.000 .00/ 12.00 GRADIENT INTERVAL = REINE O 3.27 ±2000 € 10.000 DCSL DCLN DCD DCYN DCL DCHL DEA DOTU DCY ΟZ CC:3 .00421 +.00902 -.01761 .00572 -.00815 -.09428 .01272 ~.01093 -.CIIJ7 -.00000 .ccb .00377 -.00507 -.01832 -.00433 -.09244 .00459 -.01182 -.00%22 -.00193 .01122 3.000 -.00218 .00345 -.01657 -.00155 -.08961 .00782 -.01178 .00378 -.00273 7.500 +.001!:3 .00277 .00144 -.08100 -.01769 .00190 - 01325 .00247 .00320 -.GDECT> -.09322 :5.000 .00188 -.01522 .00155 -.06451 .00212 -.00379 -.00029 -.00953 .00121 Z0.000 -.05518 .00131 -.01295 .00115 .00149 -.05216 .00119 -.08549 .00091 45.000 -.05382 -.00259 -.0:051 .00093 .00091 -.03991 -.60319 .00076 .00105 -.04113 -.00342 .00171 63.000 .00089 -.00010 -.00012 -.00025 .00026 .00062 -.00011 -.00023 -.08069 .00059 GRADIENT REVAL - 3.22 GRADIENT INTERVAL -.00/ 12.00 ALFHAO = 14.080 DCLN DCL DCD DCSL DCY DCSL DCYN BCLM DCt1 DCA DΖ .00763 -.01419 -.03112 .00998 -.01265 -.17511 -.01211 -.08029 .11193 -.17783 .000 -.00786 -.03034 .00599 -.00670 -.16598 .00727 .10107 -.01476 3.000 - 16975 -.00106 -.00216 -.15021 -.02882 .00467 .07264 -.01762 .00499 -.00132 -.00233 -.15593 7.500 .00329 .00165 .00219 -.13151 ~.02705 .00295 -.01701 --08380 .04637 15,000 -.13421 .00163 .00395 -.10372 ·.02290 .00417 -.00454 .02559 -.01397.00092 -.10512 30.000 .08051 .00248 -.01984 -.00817 .00007 .00254 -.08110 .01921 -.00457 -.08317 45.000 -.01675 -.00038 .00131 -.08058 .00123 -.06500 -.00439 .01416 -.06693 -.00521 60.000

-.00528

-.00027

.00334

GRADIENT

-.00873

-.00065

PAGE 771

.00159

-.00039

.00031

.00333

.00149

CA20 (747/1 01 SI) - (747/1) D/S (075 - 036)

(UGN075) ( 25 NOV 75 )

DEI	cc	oc.	<b>SCE</b>	.71	TA

GRADIENT

### PARAMETRIC DATA

	REFERENC	E DATA									
LREF = 3	580.0000 SQ. 327.7800 IN. 548.0400 IN. .0308	, YHRP		ID IN.YC		ja.		ALPHAC = ELV-1B = ELEVON = PH1 = DY =	6.000 .000 5.000 .000	EETAC = ELV-0B = HACH = DX = EETAO =	5.000 3.000 .600 10.000
•			RN/L =	3.24 (	RADIENT INTE	RVAL *	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 95.000 95.000 GP.000 CRADIENT	DCN 06878 08689 09364 07736 06372 06349 04294 .00066	DCA .00132 .00063 00105 00105 00123 00127 00113 00020	OCLM .00913 .00590 .00531 .90160 00080 .00204 00242 00037	DCY 00515 00657 00874 01034 00935 00618 00491 00048	0CBL .00571 .00576 .00459 .00297 .00210 .00203 .00209 00028	OCYN008320055000215 .00144 .00246 .00246 .00235 .00082	0CL 08769 06568 08253 07600 06254 05246 04209 .00069	DC00141101446014730144701228010540085700008	005L .00517 .00472 .00413 .00317 .00249 .00239 .00246	DCLN 00936 00641 00792 .60080 .00206 .00169 .00165
ALPHAO ⇒	15.000 DZ .000 3.000 7.500 15.000 95.000 45.000 60.000 GRADIENT	9CN 17792 17297 16049 14621 11879 09540 08081 .00236	BCA .680%5800030009500238004898057680019	DCLM .13157 .11606 .09030 .06955 .03659 .02641 .01897	DCY005630094201930191701348003130078	0004 0004 00749 00539 00339 00004 -00146 -00215	DCYN010860062380177 .00181 .00389 .00212 .00115	DCL17530170341578314358116230940907858	DCD 03645 03007 02691 02773 02491 02156 01971	DCSL .00701 .00629 .00499 .00365 .00072 00107 00192	00LN 01227 00744 00267 .00120 .00392 .00234 .00151

GRADIENT

# TABULATED SOURCE DATA - CA20

(UCN076) ( 25 KOV 75 )

PAGE 773

		CA20	(747/1 01	S1) - (747/	/1) D/S	(076 - 034)		(UCN07	6) (251%)	V 75 )
REFEI	RENCE DATA							PARAMETRIC	DATA	
SREF • 5500.0000 LREF • 327.7800 EREF • 2348.0400 SCALE • .0300	IN. YMRP	00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-18 = ELEVON = PHI = DY =	4.000 .000 5.000 7.500 .000	BETAC = ELV-08 = MACH = DX =	-5.000 3.000 .600 .000
		RN/L =	3.22	GRADIENT INTE	ERVAL -	.00/ 12.00				
ALPHAO = 10.080 OZ .CD 3.00 7.50 15.00 30.08 45.00 GRADIEN	013990 012908 010833 008160 006409 004723	DCA .01323 .01299 .01278 .01207 .01049 .00900 .00739 00006	OCLH .11601 .11513 .10052 .07189 .04886 .02596 .02720 00216	DCY .00168 .00321 .00634 .00452 .00466 .00126 00363 .00060 GRADIENT INT	DC9L 00197 00149 00050 00042 .00013 00047 00129 .00018	DCYN .00523 .00275 00094 00099 00156 00013 .00247 00094	OCL 14514 14049 12971 10899 08225 05468 04774 .00208	000 00195 00171 00078 .00069 .00190 .00225 .00241	DCSL 00131 00119 00070 00052 00004 00048 00103 .00008	DCLN .00540 .00289 00087 00093 00157 00008 .00259 00095
ALPHAL * 14.000 0Z .08 3.00 7.50 15.60 45.00 46.00 GRADIEN	21500 28074 17260 12628 09757 07751	RN/L -  DCA .01074 .01221 .01317 .C1375 .01245 .01085 .00923	3.24 DCLH .21116 .20346 .18881 .14927 .09508 .05748 .05070	DCY 00072 .00290 .00577 .00173 .00413 .00248 .00152	DCBL 00292 00213 00144 00151 00033 00034 00052	DCYN .09770 .09378 .00926 .00149 09104 90070 90029	DCL 22488 21510 20102 17309 12689 07805 .00318	DCO 01283 01033 00789 00437 00082 .00059 .00108	DCSL 00210 09173 00141 00135 00043 00041 00055	DCLN .00796 .00398 .00041 .00160 00100 00065 00023 00059

CA20 (747/1 01 51) - (747/1) D/S (077 - 034) (UGND77) ( 25 KDV 75 )

PARAMETRIC DATA

	EREI		DAT	
13.		w	un:	^

### -5.000 ALPHAC = 9.000 EETAC = SREF = 5500.0000 SQ.FT. XMRP = 1339.9800 IN.XC .000 ELV-09 = 3.000 ELV-18 = LREF = 327.7800 IN. YMRP = .0000 IN.YC ELEVON = 5.000 MACH = .600 EREF - 2348.0400 IN. ZMRP = 190.8000 IN.ZC 7.500 DX = 10.000 PH! = SCALE \* .0300 .000 EETAO = .000

### ENVL = 3.29 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000										
_	DZ	BCN	DCA	DOLM	DCV	DCBL	DCYN	DC1_	DCD	DCSL	DCLN
	.000	12360	.01009	. 10443	.00511	00227	.00570	12397	00269	60155	.08690
	3.000	12452	.01016	.11320	.00735	00125	.00227	- 12450	00292	00101	.00239
	7.500	11747	.01054	.10248	.01116	00050	00144	11793	00169	08085	00139
	15,000	- 10129	.01060	.07502	.01007	.00000	00240	10185	00005	08025	00239
	30.000 20.000	07833	.00933	.05377	.00770	.00058	00271	07297	.00109	.00029	00275
		06144	.00334	.03852	.00344	000ZB	00050	05128	.00187	08041	08846
	95.600				.00020	00027	.00079	04800	.00248	00019	.00081
	60.000	04748	.00748	.02238					.00015	.00012	00108
	COADIENT	សាវាខា	.00086	00043	.00031	.00023	00107	.00087	.60015	.60015	00100

### RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.08

ALFIIAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000	ECN 18891 18891 17897 15607 11915 09391 07492	DCA .00559 .00710 .00870 .01058 .01019 .00977 .00817	9CLH .22993 .22243 .21216 .16376 .10572 .07432 05595	00104 .00104 .00512 .00511 .00787 .00787	0CBL 00326 00220 00144 00129 .00023 000011	DCYN .01047 .00513 .00020 .00017 00243 00105 00075	DCL 18771 18564 17680 15632 11957 09431 07537	DCD 01371 01237 01004 00580 00232 00009	DCSL 00215 00165 00142 00127 00003 00017	DCLN .01076 .00533 .00035 .00030 00244 00104
	GRADIENT	.80126	.00028	00236	.00103	.08024	00135	.00121	.00049	.00000	00137

DATE 04 DEC 75 TABULATED SOURCE DATA - CA20

**GRADIENT** 

-.00018

.00124

-.00031

PAGE 775

CA20 (747/1 01 S1) - (747/1) 0/5 (078 - 034) (UGN078) 1 25 NOV 75 1 REFERENCE DATA PARAMETRIC DATA XMRP 1339.9000 IN.XC ALPHAC -SREF 5500.0000 SQ.FT. 8.000 BETAC --5.000 YHRP .0000 IN.YC ELV-18 = 327.7800 IN. .000 ELV-09 = 3.000 2348.0400 IN. ZHRP 190.8800 IN.ZC ELEVON = BREF = 5.000 MACH .600 SCALE = .0300 PHI 7.500 DX .000 DY .000 BETAO .000 GRADIENT INTERVAL = 3.21 .00/ 12.00 ALPHAO = 10.000 DCLH DCY DC9L DCYN DZ DCN DCA DCL DCD DCSL DC1\_N .00067 -.00096 .00573 -.00178 .00501 .000 -.10140 -.09998 -.01694 -.00089 .00524 3.000 -.09943 -.00014 .00219 .00667 -.00102 .00149 -.05790 -.01741 -.00075 .00164 -.08866 7.500 -.09234 -.00073 -.00274 .00625 .00007 -.09092 -.01675 -.00054 .00019 -.00441 .00502 .00018 15.000 -.08358 -.00134 -.00104 -.08208 -.015B3 -.00000 -.00108 30.000 -.06741 -.00236 .00100 -.00117 -.00018 .00152 -.06598 -.01403 .00017 .00151 45.000 -.05482 -.00304 .00275 .00029 .00855 .00070 -.05346 -.01252 .00057 .00659 60.000 -.04555 -.00391 .00151 .00149 .00118 .00028 -.04419 -.01165 .00121 כסססס.

#### .00006 GRADIENT INTERVAL . RN/L = 3.30 .00/ 12.00

ALPHAO = 14.000 DZ DCN DCA DCLH DCY DCBL DCYN DCL DCD DCSL. DCLN -.17747 -.00007 .08845 .00698 -.00135 .00565 -.17476 -.03089 -.00035 .000 .00520 3.000 -.17376 -.00019 .09831 .00939 -.00093 .00196 -.17109 -.03036 -.08057 .00209 7.500 -.16112 -.00031 .07294 .09727 -.00069 .00026 -.15962 -.02829 -.00063 .00038 15.000 -.13998 -.00085 .05025 .00127 -.00092 .00203 -.13771 -.02514 -.00055 .00216 30.000 -.10762 -.00246 .03030 .00589 .00085 -.00202 -.10556 -.02111 .00049 -.00214 45.000 -.08569 -.00296 .02194 .00060 .00033 .00062 -.08387 -.01779 .00043 .00055 .01581 .00066 60.000 -.06991 -.08378 .00157 .00014 -.05909 -.01584 .00069 .00003 GRADIENT .08223 -.00003 -.08217 .00002 .00009 -.00069 .00220 .00036 -.00004 -.00070

.00014

-.00053

.00125

+00000+

.00003

-.00069

(UGN879) ( 25 NOV 75 )

-.01614

.00012

.08027

.08084

-.00050

-.00146

· CA20 (747/1 01 S1) - (747/1) D/S (079 - 034)

	REFERE	ENCE DATA				PARAMETRIC DATA					
SREF . S	580.0000 9	O.FT. XMRP	= 1339.90	180 IN.XC				ALPHAC =	8.000	EETAC -	-5.600
LREF =	327.7800 1	IN, YMRP	00	98 IN.YC				ELV-18 .	.000	ELV-09 -	3.800
EREF = 8	2348. <b>6</b> 480 1	IN, ZHRP	<ul><li>190.60</li></ul>	189 IN.ZC				ELEVON =	5.000	MACH =	.600
SCALE =	.0300							FHI =	7.500	DX =	10.000
					•			DY =	.000	BETAO =	.090
			RN/L =	3.29	GRADIENT IN	ERVAL =	.00/ 12.00				
ALPHAO +	10.080										
	02	DON	BCA	DCLH	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	.000	09187	00070	00939	.00797	00168	.00549	69935	01665	00070	.00570
	3.000	09348	00100	+.00897	.01889	08071	.00108	09188	01722	00051	.00119
	7.500	09018	00138	00191	.01266	.08005	00235	08855	01701	00035	00232
	15.000	03130	00155	00786	.80928	.08051	00156	07990	01564	.00023	00162
	30.000	05851	00231	00069	.00227	.00051	.00027	05707	01417	.00055	-08016
	45.008	05316	00338	.00588	.00268	.09123	.00040	05472	01306	.00128	81000.
	60.699	04953	00491	.00716	.00095	.00151	.00239	04793	01344	.00193	.00208
	GRADIENT	.09027	00009	.00090	.00052	.00023	00102	.00028	08004	.00004	08105
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALFHAD =	14.000										
	DZ	ECN	ECA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	15149	00149	.09633	.01015	00347	.00535	14893	02778	00231	.00535
	3.000	15464	00139	.10876	.01219	~.00245	.00131	15285	02823	00219	.00172
	7.590	14808	00131	.09749	.01683	00122	00446	14560	02701	00198	06418
	15.080	13t <del>65</del>	~.00117	.07039	.00710	00150	00073	12964	02405	~.08160	00045
	30.000	10541	00175	.04750	.00803	00029	00319	10449	02020	00064	00309
	45.080	08554	00219	.03540	.00170	00045	.00043	08591	01754	00037	.08880

69.000

GRADIENT

-.07435 . -.00328

.00002

.00053

.02661

-.00006

.00393

.00091

.00035

.00030

-.00044

-.00143

-.07265

TABULATED SOURCE DATA - CA20

PAGE 777

CA20 (747/1 01 St) + (747/1) D/S	(080	- 034)
----------------------------------	------	--------

(UGN080) ( 25 NOV 75 )

	REFEREN	CE DATA							PARAHETRIC	DATA	
		ET 1990	<b>= 1339.90</b> 0	በ 18 ሂኖ				ALPHAC =	4.000	estac -	-5.000
	500.8080 <b>S</b> Q		**	D IN.YC				ELV-IB =	.000	ELV-08 =	3.000
	327.7800 IN	•	-					ELEVON -	5.000	MACH =	.600
	348.6400 IN	. Zrau-	- 150,000					PHI =	7.500	DX -	.000
SCALE =	.0380							DY -	10.000	EETAO =	.000
			RM/L =	3.33	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	10.000					DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	DZ	DCN	DCA	DCLH	DCY		.00145	13877	.00111	.00435	.00100
	.000	13790	.01561	.03565	01056		.00175	133+1	.00121	.00439	.03126
	3.000	13255	.01515	.04373			.00269	12247	.00199	.00374	.03231
	7.500	12159	.01478	.04517	01228 01377		.00269	10720	.00268	.00241	.06433
	15.000	10633	.01387	.04404	01377		.00469	08176	.00306	.00071	.00465
	30.000	08099	.01159	.03931			.00224	06550	.00295	.00029	.55500.
	45.000	-,06493	.00979	.01397			00197	05326	.00324	.00042	00203
	60.000	05263	.00879	.00157	15000		.00017	.00219	.00012	00009	.00018
	GRADIENT	.09219	00911	.00157	-,00021	,					
			RN/L =	3.32	GRADIENT 1	NTERVAL =	.00/ 12.00				
ALPHAO =	14.880						B. de con 1	DCL.	DCD	ocsi	DCLN
	DZ	DCN	DCA	DCLH	DCY	DC9L	DCYN	2165B	00795	.00718	.00347
	.600	21622	.01474	. 14235			.05420 .54420	21034	00739	.00739	.00358
	3.000	20996	.0145 <del>4</del>	. 14333			.08525	19497	00735	.00673	.00457
	7.500	19450	.01466	.13110			.00265	16957	00279	.009461	.80767
	15.000	16903	.01496	11459				12839	.00052	.00022	.01164
	30.000	12763	.01393	.08002			.01167 .00519	10015	.80148	.00044	.00517
	45.000	09945	.01194	.06014			.00519	08029	.00173	.00037	.00152
	60.000	07967	.01012	.04349			.00014	.00292	.00030	00007	.00015
	GRADIENT	.00294	00001	00160	.00026	00000	.00017	100000			

CA20 (747/1 01 51) - (747/1) D/S (081 - 074)

.00023

.00131

GRADIENT

-.08090

-.08037

-.00002

EFFIRE DATA PARAMETRIC DATA

(UGN891) ( 25 NOV 75 1

.08022

.00037

.00128

.00022

-.08000

REFERENCE DATA										PARAMETRIC	DATA	
LREF -	5508.0000 9 327.7890   2348.0400   .0300	N.	OSP MSP DEC	.000	IN.YC				ALPRAC = ELV-18 = ELEVON = PHI = DY =	4.000 .000 5.000 7.500 10.000	EETAC = ELV-09 = MACH = DX = EETAO =	-5.000 3.000 .600 10.000
				RN/L =	3.26	GRADIENT	INTERVAL =	.00/ 12.00				
44 57444												
ALFHAO =	10.000 DZ	DCM		DCA	DCLN	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	118		.01129	.64394	0069		.00129	11660	00112	.00359	.00022
	3.000	115		.01142	.64651	0071	.00348	.00112	11609	00072	.00359	.00075
	7.500	103		.01175	.04793	0075	. <b>00293</b>	.00172	10903	.00035	.00310	.00141
	15.000	6968		.01153	.64395	0093	.00178	.00297	09593	.00141	.00208	.00277
	30.000	076	54	.01016	.03985	0890	18 .00027	.00372	07728	.00209	.00066	.08367
	45.000	661	<b>3</b> 4	.00558	.02822	0042	80809. 69	.00176	56190	.00212	.00027	.00174
	60.000	045	22	.00861	.01528	.0025	3E000. Si	00136	04386	.00185	.00022	00139
	GRADIENT	.001	31	.08086	.00048	0000	800000- 8	.00006	.00130	.00020	00007	.00007
				RN/L =	3.25	GRADIENT	INTERVAL =	.80/ 12.80				
ALPHAD =	14.080											
	D2	DEN		DCA	DCLH	DCY	DCBL	DCYN	9CL	DCD	DCSL	DCLN
	.000	176	91	.00535	. 14573	0140		.00192	17591	01022	.00555	.00135
	3.000	174		.00914	. 14823	0152		.00231	17400	00910	.00597	.00169
	7.500	1661		.00599	.13963	0168		.00355	16655	00746	.00560	.00293
	15.000	1483		.01134	.12249	0211		.00788	-,14924	00428	.00368	.00653
	30.000	115		.01136	.0B129	0239		.01094	11593	03076	.00047	.01055
	45.000	092	05	.01001	.06293	0094		.00439	09260	.00034	.00033	.00439
	60.000	073	54	.00851	.04449	0038		.00143	07403	.00077	.00017	.00142
						~~~						

TABULATED SOURCE DATA - CA20

(UGN8B2) ( 25 NOV 75 )

PAGE 779

			CA28	1747/1 0	1 S1) - (747	/D D/S	(082 - 034)		TUGNSB	2) (25 NO	ov 75 )
	REFEREN	CE DATA							PARAHETRIC	DATA	
LREF .	590.0080 SQ 327.7800 IN 348.0400 IN	. YMRP	= 1339.9000 IN.XC ALPHAC = .0000 IN.YC ELV-16 = 190.8000 IN.ZC ELEVON PHI DY						8.000 .000 5.000 7.500 10.000	PETAC = ELV-09 = MACH = DX = PETAO =	-5.000 3.000 .600 .000
			RN/L =	3.96	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .080 3.080 7.500 15.000 30.000 45.000 GRADIENT	DCN 10007 09333 69402 06435 06901 05516 04317 .00022	DCA .09266 .00109 .00039 00866 00240 00333 00427 00022	DCLH 04352 03528 02618 01393 00608 00447 00113 .00229	DCY0107101084011570117700009004150001100011	DCBL .00238 .00247 .00207 .00156 .00101 .00089 .00065 00004	DCYN .00180 .00221 .00306 .00417 .00351 .00207 .00052 .00017	DCL 09891 09702 09263 08595 09375 04177 .00094	DCD 01535 01600 01595 01920 01417 01295 01170 00007	DCSL .00266 .00281 .00287 .00226 .00161 .00124 .00074	OCLN .00136 .00174 .00265 .00383 .00389 .00169 .00040
ALPHAO =	14.600 02 .000 3.000 7.500 15.000 30.000 45.000 69.800 GRADIENT	DCN 18817 18015 16718 14590 11299 08910 07045	OCA .00332 .00293 .00235 .00137 00062 00239 00344 00013	DCLH .04251 .04587 .04397 .03439 .02465 .01654 .00900	0CY 02401 02340 02446 02630 02117 00908 00359 00007	DCBL .00594 .00528 .00397 .00170 00022 .00085 .00075	DCYN .00373 .06435 .00646 .00946 .00991 .00373 .00195 .00037	DCL 18589 17791 16505 14392 11115 08733 05879	DCD 02941 02850 02670 02398 02023 01783 01562 .00035	0CSL .00550 .00595 .00593 .00331 .00151 .00198 .00107	OCLN .00265 .00339 .00567 .00902 .00979 .00352 .00179

PAGE 780

CARO	(747/1	01	SU	-	(747/1)	D/S	(093 -	0341
------	--------	----	----	---	---------	-----	--------	------

(UENS83) ( 25 NOV 75 )

-.00020

-.00012

.00209

.00035

ī	Ξ	F	ы	Œ	NCE	ĐΑ	ŦĄ

## DADAMETRIC RATA

	REFERENC	E DATA							PARAMETRIC	DATA	
SRSF = 5500.0000 SQ.FT. XMR0 LRSF = 327.7800 IN. YMR0 ERSF = 2340.0400 IN. ZMR0 SCALE = .0300			08	80 IN.XC 80 IN.YC 80 IN.ZC				ALPHAC = ELV-IB = ELEVON = PH1 = DY =	8.000 .000 5.000 7.500 10.000	5.000 ELV-09 = 5.000 MACH = 7.500 DX =	
			RN/L =	3.25	GRADIENT II	NTERVAL =	.00/ 12.60				
ALFHAO =	10.000										
	DZ	DCN	DCA	DCLM	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	.080	09990	00028	~.69164	00939	.00114	.00185	02248	01537	.00145	.00164
	3.000	02303	00064	03663	00771	.00130	.00151	02658	01592	.09154	.00126
	7.580	06515	00976	02817	09779	.00110	.00163	08372	01553	.00141	.001ES
	15.080	08025	00075	01518	00931	.08041	.00332	07690	01467	.08098	.00320
	90.000	06564	00160	00919	00755	.00012	.00321	06456	01301	.09068	.00314
	45.000	05428	00245	00549	00352	08009	.00182	05303	0!184	.00031	.00179
	60.080	84785	00357	.00386	.00064	00128	.00092	04571	01168	00102	.00111
	GRADIENT	.00063	00006	.80183	.08007	00001	.00001	.00063	.00005	00001	.00001
			RN/L =	3.24	GRADIENT II	NTERVAL -	.00/ 12.00				
ALPHAO =	14.000										
	ĐΖ	DCN	DCA	DCLM	DCY	DCOL	DCASS	DCf"	DCD	DCSL	DCLN
	.009	15104	00935	. 05297	01692	.00335	.00319	14869	02658	.00285	.00255
	3.000	14659	00009	.05735	01766	.00283	.00381	14630	02589	.08345	.00326
	7.500	13905	00029	.052B4	01914	.00198	.00556	13588	02443	.00291	-00514
	15.000	12472	08011	.04549	02467	00027	.00266	12281	02177	.00141	.00955
	30.000	10117	00076	.03257	01996	00142	.00934	09950	01931	.00023	.08544
	45.080	08221	00193	.02140	00755	06007	.00322	08061	01624	.00049	.00318

.01351

-.00009

-.00299

.00000

-.00377

-.08030

-.08855

-.00018

.00202

.00032

-.06535 -.01456

.00029

.00161

60.000

GRADIENT

-.06683

### TABULATED SOURCE DATA - CA20

CA20 (747/1 01 S11 - (747/1) D/S (084 - 035) (UGN084) ( 25 NOV 75 )

PAGE 781

	REFERE	NCE DATA				PARAMETRIC DATA					
SREF = 5	500.0000 S	D.FT. XMRP	= 1339.90	DO IN.XC				ALPHAC -	4.080	BETAC -	.000
	327.7800 1			DO IN.YC				ELV-IB -	.000	ELV-08 =	3.000
	348.0400 1	•		00 IN.ZC				ELEVON =	5.000	MACH =	.600
SCALE =	.0380							PHI =	7.500	DX -	.000
55:-22								DY =	.000	BETAO -	.000
								_			
	•		RN/L =	3.18	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.008										
7.2. 12.0	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	900	DCSL	DCLN
	.000	15790	.01371	.13033	01111	00246	.00502	15946	80287	00192	.00525
	3.000	14847	.01361	. 12444	00650	00194	.00279	14984	00199	00164	.00299
	7.500	13607	.01312	.16489	00355	00130	.00137	13669	00117	00115	.00150
	15.000	11301	.01210	.09127	00174	00117	.00054	11256	.00022	00110	.00076
	30.000	09555	.01009	.05274	00055	00099	.00071	02614	.00108	00091	.60081
	45.000	05549	.00844	.04070	.00157	00030	00647	06701	.00145	00035	00043
	50.000	04740	.06629	.03089	.00409	.00054	00201	<b>0</b> 4786	.00169	-00032	00206
	GRADIENT	.00290	0000B	00347	.60098	.00015	00047	.00289	.00022	.00010	00049
			RN/L =	3.19	GRADIENT INT	ERVAL =	.00/ 12/00				
ALPHAO =	14.008										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCI.	DCD	DCS1.	DCLN
	.000	25375	.08975	.27169	02355	08434	.01188	25338	01692	00308	.01227
	3.000	24021	.01010	.25797	01788	00332	.00886	23995	01506	00237	.00916
	7.500	22006	.01184	.22544	01141	00289	.00541	22010	01123	00231	.00553
	15.000	18596	.01339	. 17665	00323	00196	.00121	18524	00611	00165	.00141
	30.000	t 3364	.01269	. 10473	00095	00135	.00895	13423	00136	00124	.00103
	45.000	10191	.01090	.07597	.00186	00052	00036	10250	.00019	00855	00030
	60.000	08007	.00900	.05518	.00252	00023	00093	08057	.00059	00033	00090
	GRADIENT	.88449	.00029	00625	.00160	.00019	00086	.00444	.00075	.00010	08087

PAGE 782 TABULATED SOURCE DATA - CARD DATE 64 DEC 75

CA20 (747/1 01 S1) - (747/1) 0/S (085 - 035)

(UGN085) ( 25 NOV 75 )

PARAMETRIC DATA

		DA	

#### 4.080 EETAC = ALPHAC = SREF = 5500.0000 SQ.FT. 1098P = 1339.9000 IN.XC .000 ELV-CB -3.000 ELV-18 = YHRP - .0000 IN.YC LREF = 327.7800 IN. 5,000 MACH = .600 ELEVON = ZHRP = 190.8800 IN.ZC EREF - 2348.6480 IN. 10.000 DX -PH! = 7.500 .0380 SCALE = .000 - CATES 600.

## RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000 DZ .000 3.000 7.500 15.900 30.000 45.600 60.000 GRADIENT	00N 13858 13458 12562 10839 02227 06540 05128 .00175	01165 .01289 .01214 .01159 .01007 .00293 .00755	DCLH .12685 .12312 .11171 .08488 .05490 .04257 .02900 00205	BCY 01041 00800 00823 00054 .00003 .00217 .00225 .00097	009L 00265 00193 00121 00094 00018 .00006 .00014	0000 0000 0000 0000 0000 0000 0000 0000 0000	DCL 13904 13520 12620 10900 08267 065267 05177 .00173	900 00290 00205 00106 .00019 .00141 .00156 .00215	00170 00154 00103 00009 00071 00023 00003	001N .00539 .00486 .08177 .08055 .00068 00047 00065
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------	-------------------------------------------------------------------------------------	---------------------------------------------------------------------------------	-----------------------------------------------------------------------	----------------------------------------------------------------------	-------------------------------------------------------------------------------	------------------------------------------------------------------------	-------------------------------------------------------------	--------------------------------------------------------------------------

#### .00/ 12.00 RN/L = 3.28 GRADIENT INTERVAL =

ALPHAD =	19.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRAD1ENT	0CN 21057 20553 19223 16252 12262 09534 07933 .00249	DCA .00469 .00757 .00594 .01092 .01055 .00937 .00890 .00059	OCLN .27931 .26513 .25574 .17390 .11185 .07035 .06212	DCY01532019200071400165 .00114 .00193 .00231	008L 00338 00247 00247 00162 00100 00060 00028	DCYN .00543 .00759 .00376 .00069 .00010 00034 00071 00064	DCL 20990 20518 19221 16277 12305 05579 07983 .00240	DC9 01735 01415 01021 00513 00232 00055 .00056	0051 00248 00265 00267 00151 00069 00064 00026	00LN .00374 .00762 .00359 .00105 .00021 00027 00055
----------	-----------------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------	---------------------------------------------------------------------	-----------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------	---------------------------------------------------------------------	--------------------------------------------------------------------------



### TABULATED SOURCE DATA - CA20

.00350

GRADIENT

-.00013

-.00421

CA20 (747/1 01 S1) - (747/1) D/S (086 - 035) (UCN095) ( 25 NOV 75 ) PARAMETRIC DATA REFERENCE DATA XHRP - : 39,9000 IN.XC ALPHAC = 0.000 BETAC = .000 SREF - 5500.0000 SQ.FT. ELV-18 -.000 ELV-08 . 3.000 LREF = 327.7800 IN. YHRE -.0000 1N.YC BREF . 2348.0400 IN. ZMRP = 190.8000 IN.ZC ELEVON = 5.000 MACH .600 7.500 .000 SCALE -.0300 PHI ĐΧ DY .009 BETAD = .000 RN/L = 3.22 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000 DCBL DCYN DCD DCSL DCLN DZ DCN DCA DCLH DCY DCL -.09140 -.00242 -.03134 -.00393 -.00072 .00023 -.08959 -.01826 -.00067 .00035 .000 -.01638 .00055 3.000 -.68855 -.00294 -.02413 -.00323 -.00069 .00044 -.02670 -.000060 7.500 -.09176 -.00397 -.02056 -.00204 -.00064 .00036 -.07984 -.0:801 -.00057 .00046 -.00510 -.01775 -.00121 -.00056 .00029 -.07143 -.01778 -.00050 .00038 15.000 -.07344 -.00017 -.00041 -.05770 -.00038 30.000 -.05964 -.00598 -.01099 .00117 -.01625 -.08024 45.000 -.64659 -.08571 -.00446 .00207 .00070 -.00074 -.04695 -.01408 .00055 -.00085 60.000 -.03847 -.00539 -.00323 .00129 .00209 -.00063 -.03695 -.01199 .00195 -.00093 .00001 .00132 .00004 .00001 .00001 -.00019 .00025 .00001 **GRADIENT** .00130 .00137 RN/L = 3.21 GRADIENT INTERVAL = .00/ 12.00 ALPHA0 = 14.000 DÇD DCSL DCLN DZ DCN DCA DCLH DCY DCBL DCYN DCL. -.17721 -.00247 .08393 -.01125 -.00281 .00422 -.17489 -.03320 -.00284 -00464 .000 .00338 -.16716 -.00260 .07357 -.00803 -.00228 .00303 -.16417 -.03159 -.00172 3.000 -.14815 -.02955 -.00137 .00163 7.500 -.15103 -.00338 .05265 -.60412 -.00163 .00137 15.000 -.12997 -.08482 .03227 -.00132 -.00139 .00048 -.12715 -.02731 -.00129 .00071 ~.03949 -.00527 .01650 .00074 -.00115 -.00011 -.09589 -.02345 -.00115 .000009 30.000 -.02049 -.00062 -.00659 .00270 -.00044 -.00108 ~.07828 -.000E3 45.000 -.09053 .01248 .01160 60.000 -.05594 -.00659 .00248 -.00009 -.00111 -.06379 -.01793 -.00028 -.00107

.00094

.08016

-,00039

.00347

.00048

.00009

-.00040

PAGE 783

CA20 (747/1 01 S1) - (747/1) D/S (097 - 035) (USN087) ( 25 NOV 75 )

	occeoc	NCE DATA						PARAMETRIC DATA				
	KEFEKE	WE DAIN							1 41 40 12 71110	<b>U</b> nin		
SREF - S	6600.0BPO S	Q.FT. XMRP	<b>a</b> 1339.90	00 IN.XC				ALPHAC =	8.000	ESTAC -	.000	
LREF =	327.7600 1	N. YHERP	.00	OD IN.YC				ELV-IB =	.000	ELV-09 =	3.000	
BREF = 8	2348.0400 I	N. ZMRP	- 190.80	00 IN.ZC				ELEVON .	5.000	MACH =	-600	
SCALE =	-0300							PH1 =	7.500	DX -	10.000	
								DY =	.000	EETAD =	.000	
			CHI/L =	3.28	GRADIENT INT	ERVAL -	.00.51 \000.					
ALPHAO =	10.000											
	ÐΖ	DCH	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN	
	.000	08631	00335	02803	08269	.00031	.00025	06442	01829	.00035	.00019	
	3.000	05550	00383	01958	00159	.00022	.00017	08363	01653	.00024	.00013	
•	7.500	02206	80446	01342	00090	.30091	.00011	08004	01634	.00003	.08011	
	15.080	<b>-</b> .87707	00506	01343	00025	.08020	.00002	07502	01837	.00020	00002	
	30.000	069E4	00552	00407	.00103	.00045	00013	06524	01729	.00042	00021	
	45.000	05705	80454	.00429	.80284	.00178	08054	05533	01477	.00164	00054	
	69.080	04772	00564	.60344	.00135	.03411	00010	04612	01325	.00403	00001	
	GRADIENT	.00059	00015	.00190	.00023	00004	00002	.00000	00004	00004	08001	
			באיר =	3.27	GRADIENT INT	ERVAL -	.00/ 12.00					
ALPHAO =	14.000											
	DZ	DCN	DCA	DCLM	DCY	DCEL	DCYN	DCL	DCD	OCSL	DCF13	
	.600	15026	68438	.09371	00832	00155	00332	14716	03939	00095	.00353	
	3.000	14836	08403	.09522	00665	90172	.00272	14548	02973	00122	.00293	
	7.500	13599	00499	.07780	803B3	00117	.00159	13484	02870	00888	.00176	
	15.000	12881	00552	.05729	00137	00130	.00057	11929	02832	60116	.00089	
	30.000	09994	00660	.03625	.80133	00116	00024	09727	02385	00118	00004	
	45.000	08612	00663	. (; 199	.00392	00025	00143	08366	02147	00850	00137	
	60.000	07276	<b>006</b> 45	.(:'⊤⊸6	.00274	.00002	00106	07052	01904	00017	00105	

.00060

.00182 -.090 - 002.3

GRADIENT

-.00023

.00006

.00181

.00023

.00801

-.00024

## TAGGELATED SOURCE DATA - CA20

.00423

GRADIENT

-.00022

-.00635

PAGE 785

.00017

.00023

.00012

-.08843

.00423

-.00041

CA20 (747/1 01 S1) - (747/1) D/S (088 - 035)

( 25 NOV 75 ) (UGNDBB)

	REFEREN	CE DATA							PARAMETRIC	DATA	
LREF =	5500.0000 SQ 327.7600 IN 248.0400 IN .0300	FT, XHEP	<b>=</b> 190.880	10 IN.XC 10 IN.YC 10 IN.ZC	GRADIENT IN	TEOVA) ·	.00/ 12.00.	ALPHAC = ELV-18 = ELEVON = PH1 * DY =	4.080 .000 5.000 7.500 10.000	BETAC = ELV-OB * MACH = DX = BETAO =	.000 .000 .000 .000
			RN/L =	2.31	Grant III						
ALPHAO =	16.080 DZ .000 3.080 7.500 15.000 30.800 45.000 60.000 GRADIENT	0CN 15119 14493 13226 11252 08425 06512 04922 .00255	DCA .01538 .01481 .01427 .01319 .01097 .00914 .00741	DCLM .10961 .11044 .09983 .07654 .05045 .03936 .03286	00800 00714 00409 .00083	DCBL .00561 .00505 .00427 .00260 .00116 .00037 00070	OCYN008580015500160 .00059 .00242 .00190 .0007700011	DCL 15197 14568 13303 11328 08494 06672 04973	000 00091 00092 .00037 .00135 .00211 .00218 .00222	DCSL .00551 .00465 .00408 .00265 .00141 .00056 00062	DCLN 00126 00207 00264 .00032 .00228 .00165 .00064 00010
			RN/L =	3.32	GRADIENT !N	ITERYAL =	.00/ 12.00				
ALPHAO =	14.080 DZ .080 3.000 7.500 15.000 30.000 45.000	DCN 24344 23032 21165 17913 13057 10160	OCA .01454 .01364 .01269 .01337 .01230	OCLM .25275 .23174 .20484 .15883 .09693	02569 02078 02139 01612 00934	0CBL .00951 .00925 .00538 .00341 .00086 .00039	DCYN 08005 00007 .00082 .00500 .00589 .00380	DCL 24363 23048 21183 17955 13124 10219 08099	DCD 01099 01050 08931 00542 00143	OCSL .00955 .00920 .00543 .00392 .00147 .00079	DC_N 00105 00493 .00015 .00462 .00576 .00374 .00187
	60.080	08645	.00943	.05255	00400	.00020	00010	00027	ກາດລະ	00041	.00017

.00035

.00016

-.00032

CA20 (747/1 01 SI) - (747/1) D/S (099 - 035)

(UGNUSS) ( 25 NOV 75 )

PARAMETRIC DATA

.00001

.00042

-,07178

.00225

.00226

.00032

~	 n.	NCE	n	17	
IO.	 HT.		u.		r

-.07139

.00228

60.000

GRADIENT

	REFEREN	CE DATA									
LREF -	500.0000 SQ 327.7800 IN 348.0400 IN .0300	. YMRP	= 1339.9000 = .0800 = 190.8000	IN.YC				ALPHAC = CLV-18 = CLEVON = FHI = DY =	4.000 .000 5.000 7.500 10.000	EETAC = ELV-03 = HACH = DX = BETAO =	.000 3.000 .600 10.000
			RN/L =	3.32	GRADIENT INTE	RVAL =	.60/ 12.60				
ALPHAO =	10.000 02 .000 3.000 7.500 19.000 30.000 45.000 60.000 GRADIENT	OCN13893125891156910065077806509264260	.01218 .01227 .01174 .01129 .00940 .00805	00LM .10241 .10228 .09197 .06826 .04669 .03060 .00708	DCY 01052 00757 00540 00620 00733 00500 00393 .00067	008L .00446 .00392 .00331 .00206 .00055 00007 00847 00015	OCYN 00129 00174 00189 .00021 .00246 .00220 .00232	DCL 13059 12645 11629 10128 07836 06133 04311 .00193	DCD 00148 00095 00042 .00071 .00165 .00262 .00014	005L .00430 .00371 .00309 .00207 .00080 .00016 00023	DCLN 00175 00214 00222 00801 .00239 .00230 00235 00085
			RN/L =	3.26	GRADIENT INTO	ERVAL =	.00/ 12.08				
ALPHAG *	14.000 DZ .000 3.000 7.500 15.000 30.008 45.000	DCN194991895117803192071151309023	DCA .00825 .00803 .00830 .01016 .00938	9CLM .23217 .22079 .20057 .15307 .09314	01529 01555 02033 01330	DCBL .00807 .00699 .00538 .00247 .00087	DCYN 00193 00190 .00030 .00576 .00466	OCL 19478 18940 17806 15230 11550 08063	DCD 01217 01103 00906 00579 00250 00097	BCSL .00782 .00576 .00538 .00305 .00137	DCLN 00281 00262 00267 .00547 .00475
	-13.000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				00000	accen	- n <b>717</b> 8	.00001	.00016	.00228

-.00000

-.08035

-.00486

.00044

.04646

+.00424

.09751

GRADIENT

.00307

PAGE 787

			CA2D	(747/1 0	II SEI - 174	771) D/S	(090 - 035)		(UGN09	D) (25 NO	V 75 J
	REFERENC	E DATA							PARAMETRIC	DATA	
LREF =	500.0000 SQ. 327.7800 IN. 348.0400 IN. .0300	FT, XHRP YHRP ZHRP	00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = PHI = DY =	8.000 5.000 7.500 10.000	BETAC = ELV-08 = MACH = OX = BETAO =	.000 3.000 .600 .000
			RN/L =	3.27	GRADIENT IN	ITERVAL =	.00/ 12.00	-			
ALPHAO =	10.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	09037	60295	01692	-,00976	.00233	00513	08849	01889	.00140	00546
	3.000	08673	00397	01875	+,00598	.00195	00422	08472	01897	.00119	03449
	7.500	08086	00520	01946	00780	.00107	00174	07873	01916	.00076	00190
	15.000	~.07897	09826	02284	00592	.00040	00077	06880	01648	.00026	00083
	30.000	055!1	00771	01863	00732	00141	.00214	05294	01716	00102	.00235
	45.000	04381	00748	01377	+.00326	00170	.00073	04185	01497	00155	.00101
	60.000	OX2E1	00647	01106	.00033	00185	00100	03099	01203	00200	00065
	GRADIENT	.00127	00030	08032	.00010	08817	.00046	.00130	00007	00009	.60048
			RN/L ►	3.28	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	.000	17661	00361	08983	02226	.00855.	00412	<b>~.</b> 17330	03422	.00541	00513
	3.000	16917	00400	.07879	02122	.00485	00187	16590	03332	.00445	00268
	7.500	15378	00491	.05533	02281	.08280	.00260	15061	03144	.00321	.00208
	15.000	13061	~.00622	.02818	02243	.00047	.00599	12755	02880	.00151	.00582
	30.000	09723	00748	.00733	01179	00074	.00372	03446	02425	00008	.00379
	45.000	07175	00762	.00301	00651	00183	.00223	06933	01995	00141	.00252
	60.000	05944	00733	00110	00244	00173	.08054	65726	01754	00161	.00083

.00090

.00308

.00038

-.0^029

.00097

DATE 04 DEC 75

-.00016 -.00465 -.00010 -.00046

CA28 (747/1 01 S1) - (747/1) D/S (091 - 035)

(UGN091) ( 25 NOV 75 )

REFERENCE DATA
----------------

## DE DATA PARAMETRIC DATA

SREF =	5500.0000 32 <b>7.7</b> 800	IN.	XMRP YMRP		.0000	IN.YC	ALPHAC ELV-1B	•	9.000	BETAC ELV-C9 MACH	=	.000 3.000 .600
ersf = Scale =	2348.0400 .0300	IN.	ZMRP	-	190.8000	IN.ZC	OA EHI ETEAGN	2 2	5.000 7.500 10.000	DX	* = -	19.000

### RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00

DCLN
00475
00378
00177
00079
.00276
.00143
.00130
.00040
37190848

## RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.60

ALPHAD =	14.080						20141	061	DCD	DCSL	DCLN
	ÐΖ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL			
	.000	13992	00559	.09597	01996	.00263	00160	13571	05988	.00228	00222
	3.000	13819	00591	.09081	01765	.00175	00107	13310	-,02947	.00153	00135
	7.500	12948	00673	.06952	02074	80027	.00330	12140	02224	.00031	.00329
	15.000	10927	00783	.04389	02104	00208	.00574	10625	02669	00103	.00501
	39.000	08554	00812	.01619	01296	00306	.00405	08383	02303	00232	SE#80.
	45.000	06084	03704	.01100	00812	08440	.00290	05870	01750	00393	.00392
	69.000	05564	08559	.08592	00488	00312	.00123	05463	01632	002ES	.00175
	GRADIENT	.00209	08014	00377	00015	08039	.03070	.00289	.00022	00028	.00076

<u>....</u>

30.000

45.000

6D.009

GRADIENT

-.12637

-.09965

-.07912

.00373

.01200

.01668

.00958

.00001

.08536

.05897

.04229

-.00788

-.01239

-.00800

-.00295

.00057

.00391

.00329

.00130

.00059

-.12693

-.09923

-.07959

.00371

-.00128

.00029

.00126

.000040

-00159

.00086

.00070

-.00045

.00377

.00322

45100.

.00074

.00118

.00052

.00057

-.00053

### TABULATED SOURCE DATA - CA20

PAGE 789

			CA20	CA20 (747/1 01 S1) - (747/1) D/S (092 - 036)						(UGN892) ( 25 NOV 75 )			
	REFERE	NCE DATA							PARAMETRIC	DATA			
LREF =	5509.0000 SC 327.7800 IN 2348.0400 IN .0308	I. YHRP	• .00 • 190.80	80 IN.XC 80 IN.YC 80 IN.ZC				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.000 .000 5.000 7.500 10.000	BETAC = ELV-09 = MACH = DX = EETAO =	5.000 3.000 .600 .000		
			RN/L =	3.38	GRADIENT INT	ERVAL =	.00/ 12.00						
ALPHAO =	10.000												
	DZ	DCN	DCA	DCLH	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN		
	.000	14678	.01436	.12913	01678	.00576	00351	14748	00108	.00536	00489		
	3.000	13981	.01442	.11996	01453	.08464	00207	13956	00017	.00440	00254		
	7.500	- 12403	.01403	.09347	0t025	.00380	00154	12482	.00099	.00362	00193		
	15.000	10602	.01257	.06461	01078	.00241	.00097	10676	.00142	.00250	.00072		
	30.000	08144	.00997	.03552	01659	.00058	.00390	08203	.00148	<b>eesco.</b>	.00392		
	45.000	06473	.08891	.02820	08425	.00052	.08163	06531	.00509	.00069	.00155		
	60.000	04730	.00867	.02765	.00524	.00078	00254	04795	.00367	.00051	00261		
	GRADIENT	.00305	00005	00484	.00079	00026	.00025	.00304	.00027	00023	.00028		
			RN/L -	3.31	GRADIENT INT	ERVAL =	.00/ 12.00						
ALPHAO =	14.000												
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN		
	.000	23101	.01206	.26139	02522	.00909	00478	23100	01215	.00854	00570		
	3.000	22027	-01140	.23511	02447	.00724	00161	22025	01169	.00703	00236		
	7.500	20308	.01206	.20197	02105	.00509	.00052	20323	08924	.00512	00002		
	15.000	17150	.01318	.15034	01822	.00279	.00293	17193	00481	.00308	.00282		

.00799

.00040

45.000

60.000

GRADIENT

-.07578

.00259

.03923

-.00655

-.00394

.08019

.00161

.08054

.00007

-.08040

-.07620

.00254

PASE 790

CA20 (747/1 01 51) - (747/1) D/5 (093 - 036)

(UGN093) ( 25 NOV 75 )

			CYSD	(747/1 0	1 211 - 1741	711 0/5	(433 - 633)		100.122		_		
	REFERE	NCE DATA						PARAMETRIC DATA					
	500.0000 S 327.7800 I			00 IN.XC				ALPHAC = ELV-18 =	4.000 .000	ELV-C3 =	5.088 3.080		
	327.7000 1 348.0460 1			00 IN.ZC				ELEVON =	5.000	MACH =	.690		
SCALE .	.0300	2,54						PHI =	7.500	DX -	10.000		
SUALE G	-0200							DY =	10.000	EETAO =	.000		
			RN/L =	3.28	GRADIENT INT	ERVAL =	.00/ 12.00						
ALPHAD =	10.600				****	DOM	DCYN	DCL	DCD	DCSIL	DCLN		
	ÐZ	DCH	DCA	DCLH	DCY	DCBL .08451	06429	12542	00130	.00413	00475		
	.000	- 12487	.01162	.11836	01043	.00390	00324	12110	00889	.00354	00363		
	3.000	12053	.01178	.10978	00987	.003321	00324	1120B	00003	.00295	00263		
	7.500	11147	.01168	.08568	00761	.00201	.00644	09801	.00822	.00204	.00023		
	15.000	09745	.01047	.06010	00899	.00201	.00373	07661	.00061	.00063	.00369		
	30.090	07813	.00261	.02944	01647	-	.00167	063ED	.00093	.00036	.00164		
	45.000	06316	.00757	.02435	00456	.00019	00107	05155	.08053	.00028	00107		
	60.000	65121	.00592	.01904	.60247	.00037	08025	.00180	.00017	00016	.00028		
	GRADIENT	.00160	00002	60430	.00037	08018	.00023	.00100	.050.7				
			RN/L □	3.25	GRADIENT INT	TERVAL =	.00/ 12.60						
ALPHAO •	14.080						00101	DCL.	DCD	DCSL	DCLN		
	DZ	DCN	BCA	DCLI1	DCY	DCBL	DCYN	19323	01342	.00657	00616		
	.000	19357	.06585	.25586	01504	.00717	08544	18828	01213	.0000	00250		
	3.080	18852	.00761	.23897	0164 <b>0</b>	.08517	00197	17453	00853	.00394	00160		
	7.500	-,17446	.00976	.20538	01383	.0846B	00117	14971	00557	.00235	.00200		
	15.080	14948	.01011	. 14799	01491	.00212	.00223		00337	.00110	.00384		
	30.080	11447	.60971	.08566	01221	.00070	.00394	11465	08067	.00843	.00369		
	45.000	08891	.00877	.05482	00928	.00004	.00372	09033	100001	.00073	*60202		

.000003

.00065

.00024

-.08034

.00159

PAGE 791

(UGN894) ( 25 KOV 75 )

TABULATED SOURCE DATA - CARD DATE 04 DEC 75

> 0/5 (094 - 036) CA20 (747/1 Ot S1) - (747/1)

								P	ARAMETRIC	DATA	
LREF = 3	REFERENCE 500.0000 SQ. 527.7800 IN. 548.0400 IN. .0300	FT. XMRP YMRP	.000	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-18 = ELEVON = PHI = DY =		PETAC = ELV-08 = HACH = DX = EETAO =	5.000 3.000 .600 .000
			RN/L =	3.26 0	RADIENT INTE	RVAL =	.09/ 12.08				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 08987 08732 08391 07704 06345 05290 04297 .00079	DCA 00205 00328 00419 00463 00469 00459 00454 00028	DCLM .00934 .00350000480062800386001040012100127 3.28	DCY010240094600812008440040900127 .00071 .00028	DCBL .00239 .00103 .00021 00076 00084 00019 .00067 00028	DCYN 00774 00509 60298 00005 00035 00020 00057 .00062	DCL 08915 08542 08191 07503 05167 05129 04153 .00093	DCD 01762 01939 01970 01913 01554 01371 01193 00014	005L .00101 .00013 00076 00077 00022 .00056 00017	DCLN 00803 00519 00297 .00009 00016 00016 00069
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000	DCN17822169831548513549109190898707457	DCA 00326 00330 00342 00453 00407 00308 00242 00002	DCLH .12564 .10706 .07717 .05159 .02834 .02192 .01701	DCY 02920 02736 02398 01750 00972 00435 00147	DCBL .00393 .00226 .00091 00045 00037 .00028 .00112 00038	DCYN 00241 .00016 .00239 .00244 .00112 .00033 .00063	DCL 17495 16569 15191 13265 10584 06593 07302 .00307	900 03415 03257 03026 02799 02280 01647 01534 .00052	.00116	DCLN 00304 00024 .00220 .00291 .00247 .00105 .00013

-.08092

.00311

GRADIENT

## TABULATED SOURCE DATA - CA20

CARD (747/1 01 S1) - (747/1) 0/5 (095 - 036)

(UGN895) ( 25 NOV 75 )

PAGE 792

			CVSD (	74771 (	)	1, 0,3	1055 5507				
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF -	500.8889 SQ.FT 527.7889 IN. 548.0489 IN.	. XMRP YMRP ZMRP	= 1339.9080 = 190.8000	IN.YC				ALPHAC = ELV-IB = ELEVEN = PHI = DY =	8.000 .000 5.000 7.500 10.000	ELV-08 = MACH = DX = BETAO =	5.000 3.000 .600 10.000
			RN/L =	3.26	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	.000 - 3.000 - 7.500 - 15.000 - 30.000 -	00N .08979 .08933 .08893 .08893 .07080 .08193 .04418 .00014	DCA .60081 .00052 00012 .00007 .00010 .0010 .00107 00013	DCLM .01084 .00860 .00892 .00884 .00440 .00059 00065	DCY00856008210081401101008500055900509 .00005	0084 .00502 .08470 .00413 .00353 .00310 .00399 .00495 00012	DCYN 00595 00387 00179 .00168 .00268 .00212 .00248 .00054	DCL 08852 08905 08746 08020 05958 05103 04373 00916	DCE 01478 01517 01954 01407 01208 01066 00642 +.00010	005L .00393 .00395 .00378 .00377 .00352 .00429 .00531	00LN 00654 00463 00548 .00104 .00210 .00140 .00159 .00055
ALPHAO =	3.000 7.500 15.000 33.000 45.000	PCN - 19669 - 19912 - 13391 - 12303 - 10699 - 06927 - 08296	DCA 00301 00323 00377 00314 00017 .00193 .00286	80LM .12447 .11924 .08323 .07515 .04775 .03927 .03013	02266 02169 01757 01212 00789 00509	DCBL .00321 .00215 .00100 .00104 .00335 .00431 .00548	DCYN 80192 .00130 .00294 .00420 .00410 .00314 .00249	OCL14393141371312212651105340931708171	DCD 02843 02821 02697 02445 01675 01447 01150	DCSL .00282 .00234 .00150 .00176 .00402 .00479 .00583	DCLN 00245 .00091 .00272 .00365 .00345 .00234 .00161

-.08010

.00175

GRADIENT

-.00499

ORIGINAL PAGE IS OF POOR QUALITY

DATE 04 DEC 75

## TABULATED SOURCE DATA - CA20

-.18941

-.14674

-.10859

-.09567

.00218

15.000

30.000

45.000

60.000

GRADIENT

.01579

.01428

.01249

.01046

.00011

PAGE 793

.00772

.00827

.00271

.000B4

-.00003

.00308

.00073

.00075

.00845

.00004

-.00399

-.00051

.00107 .00145

.00034

CA20	(747/1 01 51) - (747/1)	0/5 (096 - 034)	(UGN096)	C 25 NOV 75	3
CY50	(747/1 0) 517 - (747/1)	0/3 1030 - 0317	10010201	. 40	

.00800

.00830

.00278

.00098

-.00003

.00226

-.00014

.00046

.00035

.00004

-.18903

-.14146

-.10930

-.06530

.00216

	REFEREN	CE BATA							PARAMETRIC	DATA	
LREF -	580.0080 SQ 327.7880 IN 348.0400 IN .0309	. YMRP	00	IN.XC ID IN.YC ID IN.ZC				ALPHAC = ELV-IB = ELEVON = PHI = OY =	4.000 .000 5.000 7.500 10.000	BETAC = ELV-09 = MACH = DX = EETAO =	-5.000 3.000 .600 .000
		•	RN/L =	3.28	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 15753 15049 14028 12091 09154 07222 05055 .00230	0CA .01512 .01486 .01472 .01377 .01177 .00991 .00795 00005	DCLM .10807 .10224 .09529 .07933 .05703 .04339 .03029	DCY 01599 01409 01214 01050 00178 00048 000451 .00050	DCBL .00141 .00155 .00143 .00066 .00089 .00019 00108	00420 .00420 .00383 .00480 .00400 .00068 .00243 00003	DCL 15925 15122 14105 12169 09227 07285 05110	000 00143 00095 00005 .00105 .00213 .00202 .00209	DCSL .00184 .00194 .00193 .00107 .00095 .00026 00082	0CLN .00403 .00365 .00376 .00391 .00061 .00065 .00253
			RN/L =	3.28	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	14.000 DZ .000 3.009 7.500	DCN 23391 23844 21794	9CA .01500 .01571 .01585	DCLM .17892 .18519	DCY 03529 03365 02986	DCBL .00336 .00373 .00370	DCYN .00884 .00946 .00973	DCL 23420 23082 21840	0CD 00954 00846 00701	DCSL .00426 .00470 .00460	DCLN .00844 .00801 .00830

-.02408

-.01774

-.00529

-.00132

.00084

.15311

.10031

.07019

.05249

.00399

.00282

-.80999

-.00219

-.00464

-.00010

.07858

.05708

.02899

.01712

.00822

-.00305

-.02461

-.02127

-.01013

-.00425

-.00099

.00112

.00207

.00082

.00089

.00122

.00170

-.08007

.00580

.005E3

.00460

.00215

.00093

-.00004

.00313

.00205

.00171

.00162

.00189

-.000008

CA20 (747/1 01 S1) - (747/1) D/S (897 - 034)

(UGN897) ( 25 NOV 75 )

PARAMETRIC DATA

-.19844

-.16553

-.12641

-.09894

-.07225

.00345

.00626

.00713

.00482

.00240

.00124

-.00005

-.02953

-.02653

-.02229

-.01967

-.01664

.00859

### REFERENCE DATA

7.580

15.000

30.000

45.000

60.000

GRADIENT

-.19257

-. 16762

-.12836

-.16988

-.07407

.00348

#### <del>-5</del>.000 ALPHAC = 8.000 BETAC = XHRP \* 1339.9080 IN.XC SREF = 5500.0000 SQ.FT. .000 ELV-CB = 3.000 ELV-18 -YHRP = .8888 IN.YC LREF = 327.7800 IN. .600 ELEVON = 5,000 MACH ZMRP = 190.8080 IN.ZC EREF = 2348.0480 IN. .000 FH! 7.500 DΧ SCALE = .0300 10.000 **EETAO** -5.000 DY .00/ 12.00 3.25 GRADIENT INTERVAL -@VL = ALPHAO = 10.000 DCLN DCYN DCL DCD DCSL DCLM DCY DCBL DCN DCA DΖ -.11926 -.01699 -.00007 .00501 .00372 -.01073 -.00094 .00492 -.12040 .60398 .000 -.01715 .00017 .00453 -.01594 -.00082.00449 -.11492 .00307 .00354 3.000 -.11615 .00446 .00446 -.10899 -.01745 .00035 .00174 .00701 -.01351 -.00043 7.500 -.11036 -.00839 .00022 .00345 -.09602 -.01671 18000. .00336 .00605 .00021 15.000 -.09747 .00174 -.07655 -.01555 .00105 -.60287 .00074 .00190 E0.000 -.07819 -.00200 .00332 .00091 -.00065 .00110 .00112 -.06059 -.01449 .00127 -.000ZS 45.000 -.08229 -.00373 -.01280 .00212 .00117 .00152 -.04055 -.01218 -.00211 .00169 GB.000 -.04216 -.00557 -.00006 .00005 -.00007 -.00038 .00846 .00053 .00007 -.00005 .00137 .00133 GRADIENT GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.28 ALPHAD = 14.000 DCLN DCD DCSL DCBL DCYN DCL ÐΖ DCN DCA DCLH DCY .00510 .00258 .00665 -.21633 -.03336 .00369 .08471 .10178 -.03315 .000 -.21884 .00574 -.20566 -.03148 .00359 -.02855 .00264 .00629 -.20800 .00471 .08995 3.000

1

## TABULATED SOURCE DATA - CA20

(UGN098) ( 25 NOV 75 )

PAGE 795

-.00028

-.00003

.00035

CAZO	1747/1	01	SI) -	(747/1)	0/5	(098 - 035)	,
------	--------	----	-------	---------	-----	-------------	---

#### PARAMETRIC DATA OCCUPENCE DATA

	REFEREN	CE DATA						·		_	
LREF -	500.0000 50 327.7890 IN 348.0400 IN .0300	. YHRP	000	OO IN.XC OD IN.YC OO IN.ZC				ALPHAC = ELV-18 = ELEVON = PH1 = DY =	4.000 .000 5.000 7.500 10.000	ESTAC = ELV-09 = MACH = EETAO =	.000 3.000 .000 .000 -5.000
			RN/L =	3.29	GRADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 17684 16706 14960 12500 09392 07378 05387 .00379	DCA .01379 .01362 .01378 .01304 .01156 .01020 .00977 00701	DCLH .16458 .17319 .13963 .10161 .06739 .05079 .04600 00525	DCY0183301109008740102900230 .00220 .00954 .00122	DCBL .00297 .00291 .00196 .00023 .00044 .00045 00014	DCYN .00119 00131 00019 .00314 .00152 00048 00394 00315	0CL 17732 16757 14922 12568 09462 07444 05460 .00377	000 00477 00392 00191 00010 .00169 .00243 .00409	0030 .00309 .00276 .00193 .00059 .00020 .00039 .00126 00016	DCLN .00087 00160 00040 .00310 .00151 00562 00400 00013
¥Fbłky0 ≈	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000	9CN 26382 26436 23638 19909 14398 11234 nenng	PCA .01208 .01212 .01189 .01271 .01281 .01214	0CLH .29562 .28373 .25585 .19184 .11095 .08015	DCY040210326302493021340192508558	DCBL .00363 .00367 .00364 .00165 00104 0004	DCYN .00580 .00411 .00343 .00815 .00853 .00279	DCL 26354 25423 23633 19933 14453 11300 09074	000 01556 01453 01290 00917 00231 .00033	DCSL .00419 .00439 .00399 .00014 .00025	DCLN .00519 .00568 .00503 .00493 .00660 .00270

.00201

.06053

-.00537

.01898

-.00803

-.09009

.00358

60.000

GRADIENT

-.00028

-.00000

CARD (747/1 01 SI) - (747/1) D/S (099 - 035)

(UGNBS9) ( 25 NOV 75 1

PARAMETRIC DATA

### REFERE JE DATA

DATE 04 DEC 75

#### .000 8.000 BETAC = ALPHAC = SREF - 5500.6000 SQ.FT. XMRP - 1339.9000 IN.XC 3.000 .003 ELV-03 = ELV-18 = .0000 IN.YC YHRP = .600 LREF - 327,7880 IN. 5.000 MACH = ELEVON -ZHRP = 190,8000 IN.ZC EREF = 2348.0400 IN. .000 DΧ 7.500 PHI .0380 EETAO --5.000 10.000 SCALE -

## RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000 DZ .000 5.000 7.590 15.000 50.000 45.000 60.000 GRADIENT	pcs 10267 10303 09660 09301 05420 04654 02000 .00159	BCA 00240 00312 00413 00514 00646 00699 .00027 08023	DCLM .02423 .01252 .00379 00714 00717 60941 01289 00266	9CY 01078 01289 01239 01025 00002 .00210 .00042 00020	00051 09024 00102 00165 00069 00074 00124 00920	DCYN0842309121 .60115 .00280080420809960823	DCL 10560 10092 05492 05265 05260 04671 01975 .00161	000 02124 02095 02084 01990 01791 01523 00321 .00005	0051 00023 00045 00081 00114 00076 00080 00125 00008	00425 00115 .00131 .00304 00029 00083 00001
----------	-----------------------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------------	-------------------------------------------------------------------------------	----------------------------------------------------------------------	---------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------

## EN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 95.000 95.000 60.800 GRADIENT	0CN 20103 19213 17349 14937 10771 08126 06047	BCA 00319 00262 00262 00451 00573 00630 00465 00006	DCLH .13131 .10855 .07354 .04014 .00810 .00344 00069	DCY025860241902360020740104100012 .00206 .00029	008L .0026 .00169 .00081 00058 0008 .00000 00016	0CYN 00189 .0008 .00351 .00578 .00428 00002 00008 .00072	DCL 19742 18354 17022 14533 10509 07893 05971 .00355	000 03884 .03661 03370 03021 02434 02031 01529 .00058	.0054 .00548 .00167 .00141 .00043 00018 00000 00063	DCLN 00256 00055 .00552 .00579 .00456 00002 00063
----------	--------------------------------------------------------------------------------------------	--------------------------------------------------------------------	-----------------------------------------------------------------------------	---------------------------------------------------------------------------	-------------------------------------------------	-----------------------------------------------------------------------	----------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------------	--------------------------------------------------------------------------	------------------------------------------------------------------------

DATE 04 DEC 75 TABULATED SOURCE DATA - CA20

PAGE 797

CA20	(747/1	01	SI)	-	(747/1)	0/5	(100 -	036)
------	--------	----	-----	---	---------	-----	--------	------

(UGN100) | C 25 KOV 75 | 1

PARAMETRIC DATA

## REFERENCE DATA

	-	5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300	T. XHRP YHRP ZHRP	-		IN.YC	ALPHA ELV-1 ELEVO PHI DY	B •	5.000 5.000 7.500	ELV-05 MACH DX	= = =	5.000 2.000 000. 000. 000. <del>c</del> -
--	---	----------------------------------------------------------	-------------------------	---	--	-------	--------------------------------------	-----	-------------------------	----------------------	-------------	-------------------------------------------------------

## RN/L \* 3.31 GRADIENT INTERVAL \* .00/ 12.00

ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	9CN 16239 15292 13992 11699 09141 07239 05104 .00393	DCA .01073 .01263 .01404 .01390 .01203 .01053 .00958 .00043	0CLM .15549 .13961 .11197 .09041 .05380 .03664 .01169 ~.00593	9CY 02641 02266 01310 00501 .00176 .00324 00161	DCBL .00089 .00025 .00035 .00044 .00078 .00091 .00049	00YN .00373 .00413 .00171 00011 00895 00091 .00892 00029	0CL 16262 15340 14032 11979 09217 07308 05176	900 00530 00342 00063 .00139 .00240 .00291 .00147	0051 .00128 .00969 .00053 .00043 .00059 .00071 .00059	0010 00100 00100 00100 00100 00000 00000 00000 00000
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------	----------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------

## RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 69.000 GRADIENT	DCN 24243 23253 21627 18557 13912 10874 08721 .00350	DCA .01144 .01107 .01145 .01356 .01396 .01258 .01128	DCLH .25984 .23486 .20121 .15547 .09469 .06393 .04525 60779	DCY041870379403140020390059000193 .00046	0081 .00212 .00142 .00045 00019 .00040 .00051 .00052	DCYN .00528 .00579 .00752 .00553 .00172 .00108 .00033 .00029	DCL 24230 23242 21629 18599 13991 10946 08791	DCD 01396 01329 01122 00578 00065 .00115 .00210	0051 .00265 .00211 .00123 .00040 .00059 .00062 .00055	.0059 .0059 .0059 .00743 .00592 .00167 .00102 .00027
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------	-------------------------------------------------------------------------------------	------------------------------------------	---------------------------------------------------------------------------	--------------------------------------------------------------------------------------	--------------------------------------------------------------------	----------------------------------------------------------------------	----------------------------------------------------------------------------	---------------------------------------------------------------------------

-.04545

.00053

60.000

GRADIENT

-.00157

-.08011

REFERENCE DATA

PAGE 799

CARR	(747/1	01	SII	-	(747/1)	D/S	(101	•	036)	
------	--------	----	-----	---	---------	-----	------	---	------	--

(UGN101) ( 25 NOV 75 )

.00091

-.00084

-.00495

.00001

PARAMETRIC DATA

-.00944

-.00002

-.04448

.08854

MET STITLING	. DATE									
327.7800 IN.	T. MEP YHRP ZHEP	8888	IN.YC				ALPHAC = ELV-18 = ELEVON = PHI = DY =	8.000 .000 5.000 7.500 10.000	ELV-09 = MACH = DX = EETAO =	5.009 3.000 .600 .000 -5.000
		RN/L =	3.25	GRADIENT INTE	RVAL =	.00.11 \000.				
10.000 DZ .000 3.000 7.500 15.000 30.000 45.000	0CN 11455 11420 11055 10132 08326 05549	0CA .00257 .00233 .00173 .00110 00022 00114	DCLM .03381 .08870 .02395 .01642 .01166 .01020	DCY 01796 01265 00755 00131 .00218 .00535	DCBL .00181 .00168 .00147 .00166 .00133	DCYN 00134 00106 00126 00200 00897 00199	DCL 11338 11295 10946 09997 08196 05528	000 01738 01755 01755 01651 01468 01267	DCSL .00155 .00147 .00123 .00129 .00116	CCLN 00163 00134 00159 00225 00119 00222
	500 0000 SQ.F 327.7800 IN. 348.0400 IN. .0300 10.000 OZ .000 3.000 7.500 15.000 30.000	327,7800 IN. YMR9 348,0400 IN. ZMR9 .0300  10.000  DZ OCN .000 -11485 3.000 -11428 7.580 -11065 15.000 -10132 30.000 -08326	500 0000 SQ.FT. XMRP = 1339.9000 327.7800 IN. YMRP = .0000 398.0400 IN. ZMRP = 190.8000 .0300  FRVL =  10.000  DZ	500 0000 SQ.FT. XMFP = 1339.9000 IN.XC 327.7800 IN. YMFP = .0000 IN.YC 348.0400 IN. ZMFP = 190.8000 IN.ZC .0300  FRN/L = 3.25  10.000  DZ	500 0000 SQ.FT. XMEP = 1339.9000 IN.XC 327.7800 IN. YMEP = .0000 IN.YC 348.0400 IN. ZMEP = 190.8000 IN.ZC .0300  FN/L = 3.25 GRADIENT INTE  10.000  DZ	500 0000 50.FT. XMRP = 1339.9000 IN.XC 327.7800 IN. YMRP = .0000 IN.YC 348.0400 IN. ZMRP = 190.8000 IN.ZC .0300  FN/L = 3.25 GRADIENT INTERVAL =  10.000  DZ	508 0000 SQ.FT. XMRP = 1339.9080 IN.XC 327.7800 IN. YMRP = .0000 IN.YC 398.0400 IN. ZMRP = 190.8000 IN.ZC .0300  RN/L = 3.25 GRADIENT INTERVAL = .69/ 12.00  10.000  DZ	500 0000 SQ.FT. XMEP = 1339.9000 IN.XC	500 0000 SQ.FT. XMEP = 1339.9000 IN.XC	500 0000 50.FT. XMFP = 1339.9000 IN.XC

#### RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00

.01037

.00137

.00428

-.00129

ATEHAO ■	14.000 0Z	DCN 19431 16930 17493 15541 12636 08193 .00261	DCA 00405 0025 00176 00164 00094 00157 .00030	OCLM .11381 .10122 .07878 .05424 .03488 .02763 .01889 00470	DCY0392003263024050121200108002500048200201	DCBL 08064 00072 00135 00117 .00061 .00139 .00161 00017	DCYN .00348 .00375 .00353 .00123 07897 00113 00103 .00002	DCL 19065 18494 17197 15276 12401 10058 08041 .00252	DCD 03774 03550 03211 02860 02262 01901 01577 .00075	DCSL .00057 ~.00005 ~.00070 ~.00094 .0004 .00118 .00127 ~.00017	DCLN -00344 -0029 -00191 -00100 -00100 -00200 -00005
----------	--------------	---------------------------------------------------------------------	--------------------------------------------------------------------	-------------------------------------------------------------------------------------	---------------------------------------------	---------------------------------------------------------------------------------	-----------------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------	---------------------------------------------------------------------------

.00175

-.088894

-.08472

Original Pagn no

DATE 04 DEC 75 TABULATED SOURCE DATA - CA20

PAGE 799

CARD (747/1 01 St) - (747/1) 0/5 (104 - 034)

(UGN104) ( 25 NOV 75 )

HEF	FIGWE	UAIA

## PARAHETRIC DATA

					141 VC	ALPHAC	= 4.000	) BETAC -	
SREF =	5500.0000	SQ.FT. XI	¥Gb ≖			ELV-1B	000	ELV-09 =	3.000
IREF ≠	327.7800	IN. Y	Kb =		IN.YC	ELEVON	= 5.000	HACH =	.600
	2348.0400		#RP =	190.0000	IN.ZC	PHI	000	אס כ	10.000
SCALE =						ĐΥ	.001	D BETAO -	-5.000

## RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 13116 13255 12028 10555 08274 06621 04818 .00155	0CA .01052 .01092 .01137 .01129 .00955 .00953 .00724 .00011	DCLH .13889 .14161 .11145 .08381 .05563 .03920 .02081	DCY .01895 .01993 .01443 .01240 .01001 .00976 .00977	DCBL 00311 00176 00168 00133 00061 .00007 .00084 .00018	0001 -00327 -00196 -00227 -00257 -00303 -00374 -00026	ECL 13156 13297 12081 10515 09329 06674 04863 .00153	000 00325 00300 00126 .00025 .00095 .00157 .00217	0051 00308 00209 00169 00169 00025 .00025	DCLN .00053 00305 00177 00212 00249 00302 00390 00392
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	----------------------------------------------------------------------------	---------------------------------------------------------------------------	---------------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------	-------------------------------------------------------------	-------------------------------------------------------------------------------

## RM/L = 3.28 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 20587 20168 18840 16275 12555 09346 08184 .00238	00A .00851 .00862 .00991 .01151 .01167 .01026 .00911	DCLH .27214 .25798 .22557 .16906 .10475 .07281 .05278	00915 .01696 .01698 .01692 .01685 .00350 .00822 .00831	008L 00583 00341 00199 00140 00184 00034 .00007	DCYN .00595 00073 00259 00151 .00102 00239 00288 00180	DCL 20564 20147 16840 16305 12608 09399 09234 .00235	01305 01251 00983 00556 00152 00019 .00050	DCSL 00507 00347 00224 00155 00173 00059 00024 .00037	DCLN .00752 00937 00237 00135 .00120 00233 00297 00125
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------------	-----------------------------------------------------------------------------	----------------------------------------------------------------------	--------------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------	-------------------------------------------------------------------------------	--------------------------------------------------------------------------------

CARO (797/1 01 51) - (797/1) D/S (105 - 039)

(UGN105) ( 25 NOV 75 )

### REFERENCE DATA

### PARAMETRIC DATA

			XMRP	_	1339.9000	IN YO	ALPHAC	<b>9.</b> 01	10 EE	TAC	=	<del>-5</del> .000
SPEEF	•			:		IN.YC	ELV-18	<b>-</b> .01	D EL	v-09	-	3.000
		327.7800 IN.	ZMRP	_	0008.081		ELEVON	- 5.0	AM CI	.CH	-	.600
		2348.0400 IN.	Zrnur	-	150.6000	114.20	PHI	<b>= .</b> 0l	אם פו		=	10.000
SCALE	=	.0380					nv		in PE	CAT	_	-5.000

#### RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00

ALPHAO ≃	10.000 DZ .000 S.000 7.500 15.000 50.000 45.000 60.000 GRADIENT	DCN09465093940896108307085680521203618 .00070	DCA 00206 00241 00246 00325 00507 00561 00665 00005	DCLH .00578 .00389 00092 .00353 00328 .00063 00197 00103	DCY .01485 .01162 .00631 .00365 .00665 .00390 .00372	DCBL 00242 00181 00209 00166 .00018 .00051 .00149 .00004	00YN .08050 08814 .00148 .00111 08143 08043 08085	DCL 09285 09209 08782 08125 06380 05035 03447	DCD 01847 01869 01799 01783 01640 01457 01283 .00097	DCSL 00289 00181 00180 00144 00007 .00043 .00132	DCLN .00091 .00018 .00182 .00194 00051 00111
----------	-----------------------------------------------------------------	-----------------------------------------------	-----------------------------------------------------------------------------	----------------------------------------------------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------------------	------------------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------------------	----------------------------------------------------------------

#### 3.32 GRADIENT INTERVAL = .00/ 12.08

ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 50.000 95.000 GRADIENT	DCN 16374 16127 14648 13299 10769 08522 06928	DCA 60234 60233 00210 00249 00408 00492 00559	OCLH .12320 .10974 .08455 .05923 .03189 .02840 .01177	DCY .02527 .02294 .01602 .01057 .00740 .00537 .00439	DCBL 00291 00165 00153 00115 .00003 .00052 .00104 .00017	DCYN00226004370026700143001300010100081	DCL 16076 15841 14586 13054 10476 08406 05725 .00205	DCD 03123 03029 02785 02554 02261 01992 01754 .00046	DCSL 00326 00239 00197 00138 00020 .00033 .00088 .00017	DCLN 00172 00401 00237 00120 00129 00109 00093
----------	----------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------	----------------------------------------------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------------------	-----------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------------	---------------------------------------------------------------------

TABULATED SOURCE DATA - CA20

PAGE 801

0010 0. 000					
	CAZI	0 (747/1 01 51) - (747/1)	0/5 (106 - 034)	(UGN105) (	25 NOV 75 1
REFEREN	E DATA			PARAMETRIC DATA	
SREF = 5500.0000 SQ. LREF = 327.7800 IN BREF = 2348.0400 IN SCALE = .0300	YHRP =	9000 IN.XC 0000 IN.YC 9000 IN.ZC	ALPHAC * ELV-18 = ELEVON = PHI DY	000 ELV-09 5.000 HACH	

		RUN NO.	0/0	RN/L =	3.31 GRA	DIENT INTER	VAL = .0	0/ 12.00			
ALPHAO 10.000 10.000 10.000 10.000 10.000 10.000	DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	0CN 17171 16594 15416 13370 10584 08661 06755 .00236	DCA .01479 .01447 .01411 .01329 .01126 .00911 .00712	00LH .08998 .09619 .08948 .07494 .05496 .04333 .03071	DCY008300072600545008090055800275 .00008	00523 .00509 .00420 .00255 .00123 .00058 00009	00076 .00076 .00008 .00030 .00204 .00226 .00149 .00080	0CL 17232 16655 15479 13435 10644 08708 06792 .00235	000 00324 00295 00208 00075 .00013 .00001 .00002	DCSL .00523 .00507 .00421 .00275 .00146 .00074 00001	DCLN .00021 00046 00019 .00177 .00212 .00142 00009

CA20 (747/1 01 S1) - (747/1) D/S (107 - 034) (UGN107) ( 25 NOV 75 )

PARAMETRIC DATA

## REFERENCE DATA

# 39.9000 IN.XC ALPHAC = 4.000 BETAC = -5.000

LREF	=	5500.0000 327.7800 2348.0480 .0300	IN. IN.	YHRP	-	1339.9000 .0000 190.8000	IN.YC	ELV-18 ELEVON PHI DY	-	5.080	ELV-08 MACH DX EETAO	=	3.000 .600 10.000 -5.000
SUALE	-	.0300						DY	=	10.000	EETAO	#	-5.000

## RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN .24766 .24803 .25146 .260.99 .27905 .29582 .31686 .00053	DCA 02955 02979 03039 03102 03234 03327 03370 00011	DCLH 01150 01660 02135 02889 03365 03511 04103 00129	OCY 22106 21574 21065 20441 20092 19774 19273	0CBL 03137 03149 03171 03152 03183 03166 03143 00004	007N .04138 .04166 .04146 .04073 .04176 .04074 .03800 .00001	BCL .24105 .24146 .24495 .25444 .27245 .26913 .30993 .00054	DCD .05299 .05281 .05281 .05364 .05668 .05769 .06082	DCSL 02526 02533 02557 02552 02555 02555 02590 00004	DCLN .04524 .04553 .04538 .0465 .0465 .04165 .04192
----------	--------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	---------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------------

n/S 1107 - 0341

(UGN107) ( 25 HOV 75 )

PAGE 802

.00002

.00055

-.08002

.00009

			CA20	(747/1 01	51) - (747/	13 D/S t	107 - 0341		100.110.		
			01.20					P,	RAHETRIC	DATA	
:REF = 5	REFERENCE 500.0000 SQ.F			DO IN.XC				ALPHAC = ELV-18 =	4.880 .888	PSTAC = ELV-09 =	-5.600 3.000
REF =	327.7800 IN.	YHRP		08 4H.YC				ELEVON -	5.000	HACH =	.600
	348.0400 IN.	ZMRP	<b>= 190.6</b> 81	00 td.ZC				PH! =	.000	DX =	10.000
CALE =	.0300							DY =	10.080	EETAO =	-5.000
			RN/L =	3.27 GF	ADIENT INTE	RVAL *	.80/ 12.00				
	14.000						DCYN	DCL	DCD	DCSL	DCLN
ALPHAO =	02	DCN	DCA	DCLM	DCA	DCBL	.04621	.16376	.03262	02623	.05031
	.000	16380	03618	.06851	-,24230	03321	-	.16947	.03486	02687	.05070
	3.000	,17401	03497	.05591	23573	03390	.04648 .04635	.18244	.03925	02750	.05059
	7.509	1873B	03389	.03347	22715	03453	.04825	.20164	.04175	02774	.04829
	15.000	.20690	03378	.00893	-,21522	03435		.23040	.04753	02637	.64591
	30.000	.23322	03305	01642	-,20418	03256	.04176	.25393	.05139	02563	.04552
	45.000	.25995	03339	01758	20059	03178	.04159	.27400	.05459	02554	.04479
		.28039	03359	02642	19828	03157	.04089	.00252	.00075	88017	.00005
	GO.GOO GRADIENT	.00261	.00030	00470	.00201	00017	.00002	.00255		••••	
			CARD	(747/1 01	S11 - (747	/11 0/3	(108 - 034)		PARAMETR1	DATA	•
	REFERENC	E DATA									-5,000
								ALPHAC =	8.000	BETAC -	3.000
REF =	5500.0000 SO.	FT. KHRP	_	BOD IN.XC				ELV-1B =	.000	EFA-08 =	.600
REF =	227.7800 IN.	YHRP		800 IN.YC				ELEVON =	5.000	MACH =	
REF -	2348.0400 IN		= 190.E	1000 IN.ZC				PHI =	.000	ox =	10.000
ECALE -	.0300							DÅ =	10.000	BETAO =	-5.000
			RN/L •	3.24	GRADIENT IN	TERVAL =	.00/ 12.00	}			
	10.000						e e ve	DCL.	DCD	DCSL	DCLN
ALPHAO	= 10.000 EZ	DCN	DCA	DCLH	DCY	DV:BL	DCAS	09334	0167	508D12	.00252
	.000	09483	00029	00965	00517	00058	.00246	09290	0170		.00178
	3.000	03105	00057	00532	<b>~.</b> 06555	.00010	,00177	08857	0165		.00217
	7.50B	09021	00837	00416	-,00558	.08019	.00224	080 <b>57</b>	0162	<b>-</b>	
		08217	00205	00078	00461	.06039		06557	0148		<del></del>
	15.000	05725	00323	00244	00136	.00893			0139	_	
	50.080 45.000	05324	68475	.00110	00051	.60107			0128		
	45.000 69.000	03852	00820	.00181	.00139	.00146			.0000	-	
	€-31 11J1J		++			00000	_ 699002	COLULA	******		

.60897

.00059

-.00009

-.03852

.00854

69.000

GRADIENT

TABULATED SOURCE DATA - CA20

PAGE 803

-5.000

3.000

10.000

-5.000

.600

(UGN10B) ( 25 NOV 75 1 CA20 (747/1 OL 51) - (747/1) D/S (108 - 034)

ELEVON =

PHI

REFERENCE	DATA

#### 8.000 BETAC -ALPHAC . XHRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. ELV-08 -.000 ELV-18 =

.0000 IN.YC LREF = 327.7800 tN. 190.8000 IN.ZC BREF - 2348.0400 1N. ZHRP =

.0300 SCALE =

### .00/ 12.00 RN/L = 3.26 GRADIENT INTERVAL =

ALPHAO =	14.000 DZ .000 3.080 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 16629 16183 15088 13404 10764 08658 06996 .00208	DCA .00029 .00053 00007 00006 00147 00306 00427 00005	DCLM .08752 .08177 .05648 .04783 .03297 .02023 .01474	DCY09777007240070401207009530040700112 .00009	008L .00282 .00285 .00258 .00121 .00078 .00118 .00122 00003	DCYN .08034 .00019 .00072 .00466 .00465 .00258 .00127	DCL 16376 15346 14857 13199 10575 08473 05816 .00206	9C0 02859 02758 02627 02333 02014 01805 01635 .00031	0051 .00264 .00267 .00267 .00200 .00167 .00161 .00142	001N 00015 00031 .00026 .00438 .00445 .00233 .00104 .00005
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------------	----------------------------------------------------------------------------	-----------------------------------------------	-------------------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------------

CA20 (747/1 01 St) - (747/1) 0/5 (109 - 035)

(UGN109) ( 25 NOV 75 )

### REFERENCE DATA

#### XHRP = 1339.9000 IN.XC SREF = 5500.0000 5Q.FT.

.0000 IN.YC LREF = 327.7800 IN. 190.8000 IN.ZC BREF = 2348.6400 IN. ZHRP =

.0308 SCALE -

### PARAMETRIC DATA

PARAMETRIC DATA

DΧ

BETAO =

5.000

10.000

.000

ALPHAC =	4.009	BETAC	-	.000
ELV-18 =	.000	ELV-08	-	3.000
ELEVON =	5.000	MACH	=	.600
PH1 =	.000	DX	=	10.000
DY *	.000	BETAO	=	-5.000

#### .00/ 12.00 RN/L = 3.27 GRADIENT INTERVAL =

1 3 4	.00013 3.00013 7.50013 5.00013 6.00003 5.00003 6.00003	1 DCA 3961 .01120 3636 .01199 2469 .01225 00189 2245 .01027 5671 .00918 4902 .00800 00013	.13927 .11773 .08591 .05798 .04086	DCY0045500268 .00183 .00717 .00824 .00789 .00740	DCSL 00442 00392 00300 00177 00080 00008 .00061	DCYN .00365 .00340 .00168 00200 00280 00291 00293 00293	OCL 14002 13585 12528 10872 08308 06731 04959	DCD 00345 00234 00055 .00052 .00159 .00215 .00283	DCSL 00401 00354 00287 00197 00108 00039 .00030	DCLN .00409 .00379 .00139 00181 00270 00289 00283
-------------	--------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	------------------------------------------------	--------------------------------------------------	----------------------------------------------------------------------	---------------------------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------------	----------------------------------------------------------------------	------------------------------------------------------------------------

-.04319

-.03112

.00104

45.000

60.000

GRADIENT

-.00809

-.00830

-.00013

-.00912

-.00534

.00002

(UGN109) | (25 NOV 75 ) CA28 (747/1 01 S1) - (747/1) D/S (109 - 035)

			CAZS	174771 01	317 - 17477	., 0,5					
	REFERENCE	E DATA						F	ARAHETRIC	DATA	
LREF = 32°	0.6080 50.0 7.7800 IN. 8.0480 IN. .0300	YMRP	= 1339.900 = .000 = 190.800	D IN.YC				ALPHAC = ELV-1B = ELEVON = FH1 =	.000	BETAC = ELV-0B = MACH = DX = BETAO =	.000 3.000 .600 10.000 -5.000
			RM/L =	3.28 G	RADIENT INTE	RVAL =	.00.12.00				
	9.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 RADIENT	9CN 21145 20728 19306 15448 12483 09844 68112	DCA .00627 .00742 .00950 .01131 .01125 .01085 .00910	0CLH .27154 .26356 .23428 .17452 .10805 .07734 .05772 00509	DCY 00921 00984 .00010 .60702 .01053 .00843 .00592	DCBL 08631 08528 00410 00230 00054 00018 .00017	DCYN .00660 .00492 .00262 00139 00389 00307 00256 00053	DCL 21095 20692 19299 16476 12532 09395 09163 .00246	DCD 01586 01489 01073 00595 00186 00028 .00057 .60069	005L 30558 00474 00391 00243 00104 00050 00010	DCLN .00722 .00544 .00304 00113 00380 00384 00250 00058
			CAEB	(747/1 01	S1) - (747)	71) D/S	(110 - 035)		(UGN11	0) (25 NC	9V 75 )
	REFERENC	E DATA							PARAMETRIC	DATA	
LREF = 36	00.8009 SQ. 27.7800 IN. 48.0400 IN. .0309	, YHRP	<b>.00</b>	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = PHI = OY =	9.000 .000 5.000 .000	BETAC = ELV-0B = HACH = OX = EETAO =	.000 3.000 .600 10.000 -5.000
			RN/L =	3.29	RADIENT INT	ERVAL =	.00. 12.00		-		
ALPHAO ≈	10.000 92 .000 3.000 7.500 15.000 50.000	DCN 06538 09289 07780 05796 05402	DCA 00503 00540 00603 00730 00807	DCLM 01620 01354 01571 01634 01288	00Y .00254 .00474 .00660 .00866 .00855	DCBL 00265 00218 00154 00083 00037	DCYN 09127 09182 00240 00315 00316	DCL 08321 09168 07559 05566 05160	0CD 01978 01999 01945 01899 01722	00136 00892	DCLN 60079 00141 00209 00295 00305

.00881

.00868

.00053

-.00339

-.00357

-.00017

-,00029

.00025

S1003.

-.01547

-.01359

.00005

-.04113

-.02921

.00104

-.00333

-.00347

-.00015

.08030

.00097

TABULATED SOURCE DATA - CA20

PAGE 805

(UGN110) ( 25 NOV 75 )

RE	FERENCE	DATA

## D/S (110 - 035) PARAMETRIC DATA

SREF • LREF • BREF • SCALE •	2348.0400	IN. YHRP	=	1339.9000 0000 190.8000	IN.YC	ALPHAC ELV-18 ELEVON PHI DY	8 =	5	.000 .000 .000 .000	BETAC ELV-0B HACH DX BETAO	= =	000. 000. 000.01 000.5-
---------------------------------------	-----------	----------	---	-------------------------------	-------	-----------------------------------------	-----	---	------------------------------	----------------------------------------	-----	----------------------------------

CA20 (747/1 01 S1) - (747/1)

#### GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.000 9Z .000 3.000 7.500 15.000 30.009 45.000 60.000 GRADIENT	DCN 15211 14480 13336 11744 09177 07187 05697 .00250	DCA 00557 00524 00521 00677 00619 00662 00686 00005	OCLM .09019 .07882 .06036 .03615 .01413 .00630 .00053	DCY 00322 00100 .00734 .01100 .01079 .00793 .00573	DCBL 00435 00364 00251 00140 00074 00044 +.00023 .00025	00211 .00217 00217 00397 00458 00305 00235	OCL 14893 14169 13031 11448 08995 06928 05457	DCD 03190 03030 02898 02706 02400 02097 01852 .00038	DCSL 00392 00329 00265 00207 00152 0014	00170 -00283 -00170 00367 00439 00293 00228 00063
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------------------------	----------------------------------------------------------------------------	-------------------------------------------------------------------------	---------------------------------------------------------------------------------	--------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------	------------------------------------------------------------------------

CA20 (747/1 01 S1) - (747/1) 0/5 (111 - 035) (UGN111) ( 25 NOV 75 )

### REFERENCE DATA

## PARAMETRIC DATA

SREF	_	5500.0000	CO ET	XHRP		1339.9000	IN.XC	ALPHAC	-	4.000	<b>EETAC</b>	=	.000
LREF	-	327.7800		YHRP	-		IN.YC	ELV-IB	**	.000	ELV-0B	=	3.000
BREF	-	2348.0400		ZHRP	_	190.8000		ELEVON	=	5.000	MACH	=	.600
SCALE		.0300		B				PHI	=	.000	ДX	=	.600
PRICE	_	+0250						DY	=	10.000	BETAD		-5.000

он ина	0.0	RN/L =	3.33	GRADIENT	INTERVAL .	.00/ 12.00

ALPHAO	DZ	DCN	DCA	DCLM	DCY	.00682 .00682	DCYN 00716	DCL 19833	DCD 00519	DCSL .00584	DCLN 00783
10.000	.000	→. 189 <del>9</del> 3	.01374	.17828	00588	.00000					
10.000	3.000	17987	.01398	. 16293	00591	.00574	08494	18034	00490	.06519	00552
				.13895	00770	.00384	00160	16494	00341	.00355	00199
10.000	7.500	16439	.01385			•		•	00215	.00221	.00181
10.000	15.000	14107	.01266	.10424	00996	.00201	.00203	-,14162	00010		
	30.000	10959	.01091	.06779	08556	.00085	.00215	10914	00050	.00107	.00205
10.000					00149	.00065	.00089	02390	00027	.80074	.00082
10.000	45.000	08844	.00902	.64876							00034
10.000	60.000	05826	.00729	.02855	.00253	.08044	00030	C6955	.00012	-00041	
10.000	GRADIENT	.00341	.08801	00525	00026	00040	.00074	.00339	.08037	00032	.00078

(UGN112) ( 25 NOV 75 )

CA20 (747/1 01 S1) - (747/1) 0/5 (112 - 035)

### PARAMETRIC DATA REFERENCE DATA

	NET ENER	JE BRITT									
LREF = 3	500.0000 SQ. 327.7800 IN. 348.0400 IN. .0300	, YMRP		ID IN.YC				ALPHAC = ELV-18 = ELEVON = PHI = DY =	4,000 ,000 5,000 ,000 10,000	BETAC = ELV-09 = MACH = DX = BETAO =	.000 3.000 .600 10.000 -5.000
•			RN/L =	3.28	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .080 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 15581 15209 15250 12161 05512 07968 06283 .00249	0CA .01155 .01170 .01148 .01053 .00923 .00707 00001	DCLH .15569 .15121 .15286 .09512 .06095 .04183 .01976 00439	DCY0018300157003890059700222000580016300029	0CBL .08471 .00384 .00256 .00122 .00068 .00057 .00052 ~.00029	OCYN 00519 00486 00170 .00113 .00074 .00040 00012 .00051	901. 15716 15847 13894 12205 09556 08019 .00248	DCD 00490 00426 00306 00224 00077 00050 .00009	DCSL .08403 .00331 .00236 .00133 .00075 .00861 .00051	001N 00554 00524 00196 .00100 .00067 .00033 00017 .00063
ALPHAO =	14.000 02 .000 3.000 7.500 15.000 50.000 45.000 69.000	9CN 21401 20714 15246 16483 12289 09720 07224	0CA .00709 .00926 .00993 .01100 .01061 .00977 .00980	DCLH .28827 .27226 .23878 .17222 .10819 .07878 .05589	DCY 00700 00595 01004 01272 01431 00594 00194 00043	DCBL .00770 .00702 .00531 .00301 .00009 .00063	DCYN 00877 00665 00211 .00219 .00609 .00272 .00106 .00090	DCL 21358 20687 19244 16507 12432 09769 07873 .00285	000 01532 01345 01024 00628 00044 00044 .00058	.00073 .00091 .00080	DCLN 00953 00725 00265 .00165 .00505 .00264 .00053

-.00043

-.00857

EECCO.

.00291

GRADIENT

TABULATED SOURCE DATA - CARO

(UGN113) ( 25 NOV 75 ) D/S (113 - 035) CA20 (747/1 01 SI) - (747/1) PARAMETRIC DATA REFERENCE DATA ALPHAC = 8.000 BETAC = .000 XXRP = 1339.9000 IN.XC SREF - 5500,0000 SQ.FT. ELV-08 = 3.000 ELV-IB -.000 327.7800 IN. YHRP = .0880 IN.YC LREF -MACH -600 ELEVON \* 5.000 ZHRP = 190.8000 IN.ZC BREF = 2348.0400 IN. .000 PH1 .000 SCALE = .0300 -5.000 10.000 EETAO -BY GRADIENT INTERVAL = .00/ 12.00 RUN NO. RN/L = 3,26 0/ 0 DCLN DCD DOSL DCLM DCY DCBL. DCYN DCL DCA ALPHAO DZ DCN -.01662 -.21395 -.03991.00520 -.00291 .13044 .00766 -.00770 -.00217 14.000 .000 -.21753 .00544 -.00447 .00514 -.00345 -.28448 -.03649 -.01775 -.20206 -.00239 .11333 14.000 3.000 -. 18631 -.G3554 .00413 -.00102 .08470 -.01721 .08425 -.00028 -.00363 -.16982 14.000 7.500 .00254 .00347 .00326 -.16143 -.03350 -.01811 .00190 -.00496 .05143 14.000 15.000 -.16479 .00092 .00452 \$1000. .00461 -.12565 -.02897 -.12878 -.08671 .01872 -.01267 30.000 14.000 -.10230 -.02551 .00041 .00193 -.00736 .01139 -.00576 .00007 .00198 -.16517 14.000 45.000 .000E> .00019 .08499 -.00219 .00004 .00085 -.06557-.02268 -.00748 14.000 60.000 -.08932 .00103 -.00045 .00097 .00370 .00045 -.00023 -.08512 -.00008 GRADIENT .00372 -.00020 0/5 (114 - 035 (UGN114) ( 25 NOV 75 ) CA20 (747/1 01 St) - (747/1) PARAMETRIC DATA REFERENCE DATA ALPHAC \* 8.000 BETAC = .000 SREF - 5500.0000 SQ.FT. XHRP 1339.9000 IN.XC 3.000 ELV-03 = ELV-18 = .000 YMRP .0000 IN.YC 327.7800 IN. ELEVON = 5.000 MACH .600 ERSF = 2348.0409 IN. ZMRP 190.8000 IN.ZC DΧ 10.000 .000 PHI SCALE -.0300 DY 10.000 EETAD = -5.000 GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.24 ALPHAO = 10.000 DOLN DCYN DCL OCD DCSL. DCLN DCY DCBL. DCA DCN DΖ -.00455 -.01927 .08040 .00118 -.08441 -.09144 -.00484 .00038 -.00450 .000 -.08355 -.00271 -.08002 -.01955 .08037 -.00234 -.00508 .00094 -.00260 3.000 -.08220 -.00535 -.01941 -.00067 -.07502 .00020 -.08072-.00567 .00032 -.00609-.00595 7.500 -.07725 -.01879 -.000004 .00146 .00143 -.05518 - 00561 -.00030 -.06745 -.00719 -.01167 15.000 -.00110 -.05225 -.01716 .00025 -.01112 .00109 .00843 -.00104 -.05443 -.00783 30.000 -.04019 -.03514 .00001 -.00083 .00247 .00015 -.00081 -.00781 45.000 -.04221 -.00793

.00033

-.00012

.00530

-.00015

-.02948

.00086

60.000

GRADIENT

-.00914

-.00017

-.05469

-.60099

-.00280

.00049

-.02782

.00088

PAGE 807

-.00002

-.00003

-.01313

-.00001

-.00202

(UGN114) ( 25 NOV 75 )

-.00160

-.00013

.00045

.00007

.00313

.00032

-.06554

-.04923

.00105

		CASO	{747/1 C	1 511 - 1747	7/1) D/S	(114 - 035		(UGN11)	11 (59 %)	A 12 1
REFERENC	E DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.  LREF = 327.7800 IN.  BREF = 2348.0400 IN.  SCALE = .0300	FT. XHRP		IN.XC ID IN.YC ID IN.ZC				ALPHAC = ELEVEN = PHI = DY =	8.000 .000 5.000 .000	BETAC = ELV-CB = MACH = DX = BETAO =	.009 3.000 .600 10.000
		RN/L =	3.22 (	RADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 14.000 D2 .000 3.000 7.500 15.000 39.000 45.000 60.000 GRADIENT	DCN15311147561547411539086190691805439 .00248	9CA 00578 00555 00664 00776 00867 00850 00855 00012	00LH .12515 .11614 .08535 .05486 .02048 .01473 .00647 00543	DCY 0091 01239 01472 01530 00800 00399 00171 00076	008L .00499 .00340 .00203 .00050 .00006 00004 00015	DCYN 00731 00292 .00079 .00407 .00281 .00147 .00079	DCL 14978 14435 13154 11229 08334 05580 05205	000 03228 03109 02893 02768 02370 02051	DCSL .00355 .00285 .00213 .00120 .00054 .00022 00801	DCLN 00505 00547 .00542 .00552 .00276 .00145 .00000
CONTROL OF THE CONTRO	o- 0474	CASS	(747/1 0	1 SI) - (747	/1) D/S	(115 - 036)		(UGNI 1		OV 75 I
REFEREN  SREF = 5500.0000 SO  LREF = 327.7800 IN  SREF = 2348.0400 IN  SCALE = .0300	.FT. XMRP . YMSP	00:	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.008 .009 5.008 .009 .000	BETAC = ELV-0B = HACH = DX = BETAO =	5.000 3.000 .600 18.000 -5.000
		RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 10.000 9Z .000 3.000 7.599 15.000	DCN 11933 11824 11145 09941 08035	BCA .00968 .01657 .01144 .01193 .01693	0CLH .05040 .07044 .06356 .05493	0CY 01408 01605 00358 .00640 .01259	DCBL 00364 00380 00310 00155 .00020	DCYN .00173 .00238 .00091 00273 00549	OCL 11971 11869 11284 10011 08105	000 00264 00165 00028 .00147 .00247	DCSL 00344 00554 00693 00183 00059	DCLN .00210 .00276 .00123 00256 00549 00389

.00841

.00512

.00140

.03355

.02215

-.00072

.00959

.00826

.00021

-.05499

-.64853

.00109

45.000

60.000

GRADIENT

.00029

.00051

.00008

-.00329

-.00155

-.00013

REFERENCE DATA

### TABULATED SOURCE DATA - CA20

PAGE 809

CA20 (747/) 01 St) - (747/1)	D/S (115 - 036)	(UGNI 15) ( 25 NOV 75 )
		PARAHETRIC DATA

SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	XHRP YHRP ZHRP	000	0 IH.XC 0 IN.YC 0 IN.ZC			ALPHA ELV-1 ELEVO PHI OY	8 =	4.030 .000 5.000 .000	EETAC = ELV-08 = MACH = DX = EETAO =	5.000 3.000 .600 10.000 -5.000
•		RN/L =	3.27	GRADIENT INTERVAL =	.00/ 12.00				-	

ALPHAO =	14,600			00.4	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	OZ	DCN	DCA	DCLH		60455	.00266	17297	01162	00425	.00312
	.000	17326	.00633	. 15084	01874						
	3.000	17507	.00751	. 15680	01591	00506	.00469	17490	01083	00455	.00519
	7.500	17012	.00969	.15254	00739	00440	.00287	17020	00815	08407	.00332
	•					00261	00250	15324	60497	00265	02222
	15.000	15282	.01197	.12691	.00593						
	30.000	12072	.01241	.08959	.01832	.00043	00933	12136	00028	00044	08833
			.01093	.06577	.01110	.00047	00473	09713	.00079	00003	08475
	45.000	09652					•	47077	.00135	.00014	~.00249
	60.080	07816	.00958	.04834	.00659	.08040	00246	07873			
	GRADIENT	.00047	.00845	.00013	.00156	.00003	00001	.00042	.00050	.00003	00001

C150	(747/1 OLS1) - (747/1)	0/5 (116 ~ 036)	(USN116)	( 25 NOV 75 )

## PARAMETRIC DATA REFERENCE DATA

SREF	-	5500.0000 SQ.FT.	XHEP		1339.9000	IN.XC	ALPHAG	-	6.000	CHIMC	-	3.000
	_			_	.0000	IN VO	ELV-18	-	.000	ELV-CB	*	3,000
LREF	-	327.7800 IN.	AHASO	#			#1 F1 F1			MACH		.600
BREF	-	2348.6400 IN.	ZHRP		190.8000	IN.ZC	ELEYON	=	5.000	PIALM	-	-
							PHI	=	.080	ХО	=	10.888
SCALE	=	.0300					*				_	-E 000
							DY	-	.000	CATES	-	್5.000

## RN/L = 3.26 ORADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.008 DZ .000 3.000 7.500 15.000 30.000 45.000	DCN 09182 09181 08949 08345 07033 05664	DCA 00056 00077 00076 00074 00268 00374	DCLH 01408 00737 00250 00055 .00764 .00757	DCY0085200357 .00281 .00958 .01196 .00706	DCBL 0010B 00114 00076 .00027 .00116 .00100	DCYN001900019700311004830053600296	5CL 09033 09028 08800 06209 06895 05532 04146	0CD 01659 01670 01629 01522 01397 01247 01111	DCSL 00140 00147 00128 00057 .00021 .00047	DCLN 00169 00174 00293 00480 00548 00309 00119
	60.000 GRADIENT	04276 .00033	00374 00002	.01059 .00150	.00334 .00150	.00103	00102	04146	01111	.00089	00017

\_\_\_\_\_\_

DATE 64 DEC 75 TABLE	ATED SOURCE DATA - CA20 CA20 (747/1 01 S1) - (747		PAGE 810 (UGN116) ( 25 NOV 75 )
REFERENCE DATA			PARAMETRIC DATA
SREF = 6500.0000 SQ.FT. XORE LREF = 387.7800 IN. YMRI BREF = 2343.0400 IN. ZMRI SCALE = .0300	0000 IN.YC	ALPHAC = ELV-IB = ELEVON = FH! = DY =	8.000 BETAC = 5.000 .000 ELV-0B = 3.000 5.000 HACH = .600 .000 DX = 10.000 .000 BETAC = -5.000
	RN/L = 3.26 GRADIENT IN	TERVAL = .00/ 12.00	
ALPHAO = 14.000  DZ DCN  .00015302 3.00015124 7.59014548 15.00015555 20.00010972 45.00009518 G0.00007552 GRADIENT .00103	DCA         DCLH         DCY          00190         .06853        01803          00162         .06585        01129          00059         .06104        00045          00057         .05184         .01220          00088         .04244         .01654          00219         .03133         .00991          00315         .02169         .00652           .00014        00100         .00235	DCBL         DCYN         DCL          00328         .00195        15037          00320         .00193        14865          00203        00106        14312          00032        00576        13155           .00183        00890        10790           .00103        08405        08843           .00108        00250        07028           .00017        00042         .00059	DC9         DCSL         DCLN          02344        02399         .00249          02765        02282         .00246          02613        0218        00569          02358        00122        00562          01932         .00025        0093          01762         .00031        00417          01559         .00063        00265           .00031         .00010        00045
	CA20 (747/1 01 SI) - (74	47/1) D/S (117 - 836)	(UGNL17) ( 25 NOV 75 )
. PEFERENCE DATA			PARAMETRIC DATA

### REFERENCE DATA

COCE		5500.0000	SQ.F7.	XMRP	=	1339.8888	IN.XC	
		227.7800		VERP	-	.0000	IN.YC	
						190.8000		
GREF	-	2348.6400	114.	Zraci		,	•	
CCALE	#	.0390						

#### 3.000 ELV-IB = .000 .600 ELEVON = 5.000 .000 .080 DX PHI -5.000 10.000 BETAO -DY

ALPHAC =

		CUN NO.	0/0	RN/L =	3.29 GRAD	DIENT INTER	VAL = _01	0/ 12.00			
ALPHAO 10.000 10.000 10.000 10.000 10.000 10.000	0Z .000 3.000 7.500 15.000 20.000 45.000 60.000 GRADIENT	DCN 17260 16593 15311 13209 10466 08549 06828 .00263	DCA .01308 .0:329 .01278 .01242 .01045 .00875 .00704	DCLH .15589 .14629 .12765 .09027 .05502 .03901 .02234 00392	DCY014860135201313007480041600139 .00124 .00022	00544 .00544 .00391 .00241 .00174 .00080 .00052 .00024	DCYN0054000254 .00050 .00016 .00076 .00059 .00047	DCL 17302 16701 15361 13266 10518 08639 06634 .00282	DCD 00505 00419 00330 00145 00055 00033 00013 .00023	DCSL .00484 .00352 .00245 .00175 .00087 .00058 .00029	001N 00594 00293 .00024 00002 .00067 .00053 .00064 .000001

# TABULATED SOURCE DATA - CA20

CA20 (747/1 01 51) - (747/1) D/5 (118 - 036) (USN118) ( 25 NOV 75 )

PACE BIL

			CNCU		• •••						
	REFEREN	CE DATA						1	PARAMETRIC	DATA	
LREF =	590.0880 SQ 327.7800 IN 348.0409 IN	.FT. XHRP	.00	00 IN.XC 00 IN.YC 00 IN.XC				ALPHAC = ELV-18 = ELEVON = PHI = DY =	4.000 .000 5.000 .000	BETAC = ELV-08 = MACH = DX = BETAO =	5.000 3.000 .600 10.000 -5.000
			RN/L =	3.29	GRADIENT II	NTERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .080 3.080 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 12793 12572 11542 10089 07553 06133 04563 .00172	0CA .01250 .01210 .01120 .01154 .00944 .00952 .00737 00018	OCLM .13175 .12608 .10762 .07394 .09410 .03289 .02020 ~.00329	OCY 00995 01165 01273 00598 00577 00092 00039	.00226 .00172 .00052 .00058 .00053	DCYN 08588 05213 .00127 .00012 .00180 .00017 00081 .00094	DCL 12853 12630 11595 10074 07610 08183 04615 .00173	000 0094 00111 0093 .00101 .00149 .00207 .00255 .00001	0051 .00423 .00239 .00239 .00173 .00080 .00069 .00059	DCLN 00537 00249 .00103 00008 .00173 .00010 00069
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 18951 19127 16342 15706 11889 09353 07592 .00089	DCA .00318 .00598 .00891 .01074 .01059 .00964 .00897	0CLM .26481 .26186 .23664 .17041 .09574 .05547 .04697	DCY 01479 01426 01694 01522 00934 00194 00031	.00668 .00432 .00289 .00148 .00084 .00089	DCYN 08929 00570 .00027 .00270 .00278 .00233 .00107	DCL 18891 19084 18335 15732 11939 08403 07645 .00080	900 01655 01415 01031 00573 00190 00019 .00059	005L .00637 .00543 .00543 .00516 .00176 .00117 .00100	9CLN 01001 00630 00018 .00239 .00261 .00262 .00097

+....

-.00005

.00165

GRADIENT

.00105

(UGN119) ( 25 NOV 75 )

CA20 (747/1 01 S1) - (747/1) D/S (119 - 536)

	REFERE	NCE DATA							PARAMETRIC	DATA	
LREF -	5500.0000 SC 327.7800 to 3348.0400 to .0300	Q.FT. XM N. YM	120 <b>. •</b> 95	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-1B = ELEVON = FH! = DY =	8.000 .000 5.000 .000	eetac = ELV-09 = Hach = DX = Eetao =	5.000 5.000 .600 10.000 -5.000
			RN/L =	3.23	GRADIENT 1	INTERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ	DCN	DCA	DCLH	ĐCY	DCBL	DCYN	DCL.	DCD	DCSL	DCLN
	.000	-,09403	.00116	.01738	0088		00546	09280	01518	.003 <del>9</del> 3 .00340	00524 00349
	3.889	-,89225	.00036	.01546	0894		00285	09091	0:567 0:637	.00269	00237
	7.500	052 <b>73</b>	00027	.02076	0862		00187	09127 08761	01684	.00205	00150
	15.080	08907	08058	.01206	0035		00106		01465	.00141	.00027
	20.000	07175	00222	.00689	0019		.00052	07027		.00142	00167
	45.000	05855	00210	.00583	.0028		00148	05729	01231	.00097	00213
	60.080	04280	00296	.00516	.8863		GD193	04164	01035		00215
	GRADIENT	.00015	00819	.00051	.0003	70025	.00048	81000.	08016	00017	100000
			UNAT =	3.22	GRADIENT	inyerval =	.80/ 12.60				
ALFHAO =	14.080					DCBL	DCYN	DCL	DCD	DCSL	DCLN
	ÐZ	ĐCN	DCA	DCLH	DCY		00693	15312	02872	.08454	00784
	.600	15576		. 12894	0154 0179	_	00215	14937	02839	.00379	00229
	3.000	15203		.11657			.00115	14101	02697	.00341	.08057
	7.580	14555		.09455		-	.00103	12965	02516		18300.
	15.608	13205		.07146			.00105	10528	02159		.00125
	30.000	10743		.84651		- ::::: <u>.</u>	.08052	08530	01832		.00035
	45.080	08317		.03065			08026	07115	01597		08050
	60.000	07293		85150.	.0910 - 0002		08020	.00163	.00024	-,08015	.00109
			00005								

-.08025

-.00461

-.08933

## TABULATED SOURCE DATA - CA20

PAGE B13

			CYSO	(747/1 0	9 St) - (747/	(1) D/S	(126 - 034)	+	(OGN15	6) (25 M	3V 75 3
	REFEREN	CE DATA							PARAMETRIC	DATA	-
		. Pr Vunn	= 1339.9	000 1H.XC				ALPHAC =	4.000	BETAC -	-5.000
	5500.0000 SQ			000 IN.XC				ELV-IB =	.000	ELV-08 =	3.000
LREF =	327.7800 IN	=		000 IN.ZC				ELEVON =	5.000	MACH =	.690
	2348.040D IN	i. Zrede	≈ 190.8t	000 IR.26				PHI -	.000	ox =	.000
SCALE *	.0300			-				DY =	.000	EETAO =	.000
								<b>J.</b> –		2,,,,,,	
		RUN NO.	0/ D	RN/L =	3.28 GRAD	DIENT INTER	VAL = .C	10/ 12.60			
ALPHAO	. DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DOSL	DCLN
10.000	.000	18426	.01194	.13783	.00885	.00122	.08392	18450	00739	.00153	.00288
10.080	3.000	17757	.01220	.13166	.00787	.00191	.00027	17788	00543	.00193	-00007
10.080	7.500	-, 16327	.01304	.10917	.08623	.00213	08072	16373	00410	.00205	+.00093
10.000	15.000	14122	.01267	.08242	.00302	.00187	~.00055	14177	00216	.00180	00084
10.000	30.000	~.11179	.01167	.05769	00354	.60848	.00219	11240	0000B	.00052	.00213
10.000	45.000	09253	.00984	.04609	00223	.00013	.00135	09306	.00011	-00027	.00134
10.000	60.000	07550	.00805	.03524	.00897	.00916	00843	07692	.00001	.00011	00044
	GRADIENT	.00283	.00015	00391	00035	.00912	~.00848	.00280	.00045	-00007	00049
			CA20	£747/1 0	2 S1) - (747/	/1) D/S	(127 - 034)	)	(UGN12	7) (25 N	OV 75 )
	referen	ICE DATA	CA20	£747/1 0	2 S1) - (747,	/1) D/S	(127 - 034)	•	(UGNIE		OV 75 )
					2 51) - (747,	/1) D/S	(127 - 034)		PARAMETRIC	DATA	
	5500.0000 50	i.ft. XHRP	- 1339.9	000 IN.XC	2 51) - (747,	/1) D/S	(127 - 034)	ALPHAC =	PARAMETRIO	DATA  BETAC =	-5.000 3.000
LREF =	5500.0000 50 327.7800 1N	I.FT. XHRP	= 1339.9 = .6	000 IN.XC	2 51) - (747,	/1) D/S	(127 - 034)	ALPHAC = ELV-IB =	PARAMETRIC	DATA	-5.000
LREF = BREF =	5500.0000 50 327.7800 1N 2348.0400 1N	I.FT. XHRP	= 1339.9 = .6	000 IN.XC	2 51) - (747,	/1) D/S	(127 - 034)	ALPHAC =	PARAMETRIC 4.000 .000	DATA  BETAC = ELV-08 =	-5.000 3.000
LREF =	5500.0000 50 327.7800 1N	I.FT. XHRP	= 1339.9 = .6	000 IN.XC	2 S1) - (747 <i>i</i>	/1) D/S	(127 - 034)	ALPHAC = ELV-IB = ELEVON =	PARAMETRIO 4.000 .000 5.000	DATA  BETAC = ELV-0B = HACH =	-5.000 3.000 .600
LREF = BREF =	5500.0000 50 327.7800 1N 2348.0400 1N	I.FT. XHRP	= 1339.9 = .6	000 IN.XC	2 S1) - (747 <i>i</i>	/11 D/S	(127 - 034)	ALPHAC = ELV-IB = ELEVON = PHI =	PARAMETRIO 4.000 .000 5.000 .000	BETAC = ELV-OB = HACH = DX =	-5.000 3.000 .600
LREF = BREF =	5500.0000 50 327.7800 1N 2348.0400 1N	I.FT. XHRP	= 1339.9 = .6	000 IN.XC		VI) D/S		ALPHAC = ELV-IB = ELEVON = PHI =	PARAMETRIO 4.000 .000 5.000 .000	BETAC = ELV-OB = HACH = DX =	-5.000 3.000 .600
LREF =   BREF =   SCALE =	5500.0000 SC 327.7800 IN 2348.0400 IN .0300	I.FT. XHRP I. YHRP I. ZHRP RUN NO.	= 1339.9 = .0 = 190.8	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-IB = ELEVON = PHI = DY =	PARAMETRIO 4.000 .000 5.000 .000	BETAC = ELV-OB = HACH = DX =	-5.000 3.000 .500 10.000 .000
LREF = BREF = SCALE =	5500.0000 SC 327.7800 IN 2348.0400 IN .0300	I.FT. XHRP I. YHRP I. ZHRP	= 1339.9 = .0 = 190.6	000 IN.XC 000 IN.YC 000 IN.ZC	3.34 GRAI	DIENT INTEF	ivali	ALPHAC = ELV-IB = ELEVON = PHI = ELEVON	9.000 4.000 5.000 .000 .000	BETAC = ELV-08 = MACH = ETAO = ETAO = DCSL .00155	-5.000 3.000 .600 10.000 .000
LREF = BREF = SCALE = ALPHAO 10.008	5500.0000 50 327.7800 1N 2348.0400 1N .0300	I.FT. XHRP I. YHRP I. ZHRP RUN NO.	= 1339.9 = .6 = 190.6	000 IN.XC 000 IN.YC 000 IN.ZC RN/L =	3.34 GRAI	DIENT INTER	ival = .i	ALPHAC = ELV-IB = ELEVON = PHI = DY = CO/ 12.09	9ARAMETRIO 4.000 .000 5.000 .000 .000 .000 .000	BETAC = ELV-08 = MACH = ETAO = ETAO = DCSL .00155 .00185	-5.000 3.000 .600 10.000 .000 .000
LREF = BREF = SCALE =	5500.0000 50 327.7800 1N 2348.0400 1N .0300	RUN NO.	= 1339.9 = .0 = 190.8 0/ 0 OCA .00964	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = 0CLM .13366	3.34 GRAI DCY .00896	DIENT INTER DCBL .00132 .00194 .00216	DCYN .00226 00075 00170	ALPHAC = ELV-IB = ELEVON = PHI = DY = CO/ 12.00 OCL - 16239 - 15784 - 14635	PARAMETRIC 4.000 .000 5.000 .000 .000 .000 .000 .000 .000 .000 .000 .000	BETAC = ELV-08 = HACH = DX = EETAO = BCSL .00155 .00197	-5.000 3.000 .500 10.000 .000 DCLN .00210 00095
ALPHAO 10.009	5500.0000 50 327.7800 1N 2348.0400 1N .0300 DZ .000	RUN NO.  1. XHRP 1. YHRP 2. ZHRP  RUN NO.  9CN1622715775	- 1339.9 0 - 190.8 - 0/ 0 - 0/ 0 - 0005	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = 0CLM .13366 .12661	3.34 GRAN DCY .60896 .60982	DIENT INTER OCEL .00132 .00194	DCYN .00226 00075	ALPHAC = ELV-IB = ELEVON = PHI = DY = CO/ 12.00  OCL1623915754	PARAMETRIO 4.000 5.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000	BETAC = ELV-08 = MACH = DX = EETAO = DCSL .00155 .00185 .00197 .00191	-5.000 3.000 .500 10.000 .000  DCLN .002100009500192
LREF = BREF = SCALE = ALPHAG	5500.0000 50 327.7800 1N 2348.0400 1N .0300 DZ .000 3.000 7.500	RUN NO.  9CN1622714602	= 1339.9 = .6 = 190.8 0/ 0 OCA .00964 .01005	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = 0CLH .13366 .12661 .10356	3.34 GRAN DCY .00696 .00982 .00863	DIENT INTER  DCBL .00132 .00194 .00216 .00211 .00050	DCYN .00226 00075 00170 00181 .00164	ALPHAC = ELV-IB = ELEVON = PHI = DY = DY = DCL162391575414635130B110622	PARAMETRIO 4.000 5.000 .000 .000 .000 .000 .00549 00549 00564 00264 0039	BETAC = ELV-08 = MACH = 0X = EETAO = DCSL .00155 .00185 .00197 .00191 .00077	-5.000 3.000 .500 10.000 .000  DCLN .00210000950019200202 .00157
ALPHAO 10.008 10.009	5500.0000 50 327.7800 1N 2348.0400 1N .0300 DZ .000 3.000 7.500 15.000	RUN NO.  OCN162271460213037	= 1339.9 = .0 = 190.8 0/ 0 OCA .00964 .01005 .01081	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = 0CLM .13366 .12661 .10356 .08182 .05747	3.34 GRAI DCY .00896 .00982 .00863 .00608 00174 00084	DIENT INTER  OCEL00132 .00194 .00216 .00211 .00050 .00023	DCYN .00226 00075 00170 00181 .00164 .00104	ALPHAC = ELEVON = PHI = DY = DOL - 16239 - 15794 - 14635 - 10622 - 09021	PARAMETRIO  4.000  5.000  .000  .000  .000  DCD 00738 00549 00451 00264 0039 00015	BETAC = ELV-08 = MACH = DX = EETAO = BCSL .00155 .00197 .00097 .00034	-5.000 3.000 .500 10.000 .000  DCLN .00210000950019200202 .00157
ALPHAO 10.000 10.000 10.000 10.000	5500.0000 50 327.7800 1N 2348.0400 1N .0300 DZ .000 3.000 7.500 15.000 30.000	RUN NO.  9CN1622719021303710578	= 1339.9 = .0 = 190.8 0/ 0 DCA .00964 .01005 .01081 .01105 .01073	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = 0CLM .13366 .12661 .10356 .08182 .05747	3.34 GRAM DCY .00896 .00982 .00863 .00609 00174	DIENT INTER  DCBL .00132 .00194 .00216 .00211 .00050	DCYN .00226 00075 00170 00181 .00164	ALPHAC = ELEVON = PHI = DY = CO/ 12.00  OCL - 16239 - 15754 - 11635 - 13081 - 10522 - 09021 - 07631	PARAMETRIO  4.000  5.000  .000  .000  .000  DCD 00738 00549 00451 00264 00039 00015 00003	BETAC = ELV-08 = MACH = DX = EETAO = BCSL .00155 .00197 .00097 .00034 .00019	-5.000 3.000 .500 10.000 .000  DCLN .00210000950019200157 .0010100098
ALPHAG 10.000 10.000 10.000 10.000	5500.0000 50 327.7800 1N 2348.0400 1N .0300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A.FT. XHRP I. YHRP I. ZHRP  RUN NO.  9CN162271527514602130371057808973	= 1339.9 = .0 = 190.8 0/0 DCA .00964 .01005 .01081 .01105 .01073	000 IN.XC 000 IN.YC 000 IN.ZC RN/L = 0CLM .13366 .12661 .10356 .08182 .05747	3.34 GRAI DCY .00896 .00982 .00863 .00608 00174 00084	DIENT INTER  OCEL00132 .00194 .00216 .00211 .00050 .00023	DCYN .00226 00075 00170 00181 .00164 .00104	ALPHAC = ELEVON = PHI = DY = DOL - 16239 - 15794 - 14635 - 10622 - 09021	PARAMETRIO  4.000  5.000  .000  .000  .000  DCD 00738 00549 00451 00264 0039 00015	BETAC = ELV-08 = MACH = DX = EETAO = BCSL .00155 .00197 .00097 .00034	-5.000 3.000 .500 10.000 .000  DCLN .00210000950019200202 .00157

PARAMETRIC DATA

CA20 (747/1 02 SI) - (747/1) D/S (128 - 034)

(UGN128) ( 25 NOV 75 )

PEFFRENCE	

#### 4.008 BETAC -ALPHAC . SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC ELV-08 = 3.000 ELV-IB . .000 LREF - 327.7800 IN. .600 ELEVON = 5.008 HACH = ZMRP - 190.8000 IN.ZC EREF = 2348.0400 IN. 20.000 .000 DX = PHI = SCALE -.0300 .000 BETAO -.000

### RN/L = 3.32 GRADIENT INTERVAL = .00/ 12.00 RUN NO.

ALPHAO 10.000 10.000 10.000 10.000 10.000 10.000	0Z .000 3.008 7.500 15.000 20.000 45.000 60.000 GRADIENT	9CN 14111 12600 12997 11678 09785 09385 08570 .00151	9CA .00867 .00655 .80896 .00913 .00941 .00828 .00585	DCLM .11239 .10910 .09141 .07392 .05357 .04376 .03456 00289	.00896 .01016 .01003 .00705 00059 00095 .00059	00015 .00156 .00167 .00209 .00061 .00009 00002	00230 00089 00244 00216 .00102 .00113 .00035	DCL 14126 13913 13020 11709 09810 09266 06904 .00150	000 00593 00593 00468 00313 00086 00047 00037 00018	005L .00034 .00146 .00161 .00184 .00071 .00020 .00001	0021 00105 00262 00262 00263 .00111 .00026 00062
--------------------------------------------------------------------	----------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------	-------------------------------------------------------------------------------------	------------------------------------------------------------------	------------------------------------------------------------------	----------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------------------------	----------------------------------------------------------------------------	-----------------------------------------------------------------------

CAED (747/1 02 SI) - (747/1) D/S (129 - 035)

(UGN129) ( 25 NOV 75 )

PARAMETRIC DATA

### REFERENCE DATA

-	5500.0000	CO ET	XHRP	-	1339.9000	IN.XC	ALPHAC =	4.000	BETAC		.000
eref =			•				ELV-18 =	.080	ELV-08	*	3.000
LREF •			AHRI			IN.YC	ELEVON =	5.000	HACH	=	.600
EREF =	2348.0480	IН.	ZMRP	-	190.8000	IN.ZU	PHI =	.000	DΧ	=	-000
SCALE .	.0300						DY =	.000	CATES	=	.000

# RN/L = 3.31 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.089 DZ .680 3.000 7.500 15.000 30.000 45.000 60.000	BCN 17663 16503 19586 12317 09114 07176 05333	ECA .01383 .01445 .01393 .01334 .01112 .00935	0CLH .15640 .15284 .12347 .09290 .05959 .04544 .03362	001 .00160 .00162 .00171 .00084 00070 00013	909L .00107 .00095 .0008D .00052 .00004 .00019 .00064	DCYN 00231 00182 00123 00051 .00044 .00025 .00016	DCL 17114 16564 14652 12393 69180 07235 05385 .00339	000 00408 00288 00139 .00039 .00153 .00180 .00216	0002 .00083 .00075 .00056 .00008 .00008 .00085	DCLN 00240 00191 60137 60055 .00023 .00023
					.00015 .00001	•					

# TABULATED SOURCE DATA - CA20

PAGE 815

CARO	(747/1 02 S1) - (747/1)	0/5 (129 - 035)	(newisa) ( 52 km 42
			PARAMETRIC DATA

	REFEREN	CE DATA							PARAHETRIC	DATA	
LREF =	327.7800 IN 327.7800 IN 348.0400 IN	. YHRP		10 IN.YC 10 IN.YC 10 IN.ZC				ALPHAC = ELEVON = PHI = DY =	4.000 .000 5.000 .000 .000	BETAC = ELV-08 = HACH = DX = BETAO =	.080 3.000 .600 .000
			RN/L =	3.29	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO #	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 GRADIENT	DCN26079248732267718898137981062868507 .00456	DCA .01153 .01141 .01255 .01413 .01276 .01114 .00967 .00015	DCLH .26475 .25554 .22959 .17414 .11117 .08005 .06039	0CY .00324 .00177 .00105 .00175 .00037 00018 00024	008L .00129 .00098 .00072 .00072 .00028 .00014 .00019	DCYN 00296 00184 00110 00117 00084 .00037 .00038	DCL 28056 24955 22684 18942 13856 10696 08591 .00452	DCD 01579 01465 01122 00570 00174 00003 .00073	005L .00097 .00078 .00067 .00059 .00028 .00018 .00023	DCLN 00307 00194 00118 00162 00006 .00035 .00035
						0.0	: (130 <b>-</b> 035:	<b>1</b>	(UGN13	10) (25 N	W 75 }
			CA20	174771	02 SI) - (747	/II D/3	, (130 - 033	•			
	REFEREN	CE DATA	CAZB	174771	02 SI) - (747	/ 1 0/3	, (130 - 033	•	PARAHETRIC	DATA	
LREF #	REFEREN 5500.0000 50 327.7800 IN 2348.0400 IN .0300	.FT. XHRP	= 1339.90 = .00	09 IN.XC 00 IN.YC 00 IN.ZC			. (130 - 033	ALPHAC = ELV-IB = ELEVON = PHI = DY =		EETAC = ELV-OB = MACH = DX = BETAO =	.000 3.000 .600 10.000
LREF = 8	5500.0000 50 327.7800 IN 2348.0400 IN	.FT. XHRP	= 1339.90 = .00	00 IN.XC			.00/ 12.00	ALPHAC = ELV-IB = ELEVON = PHI =	PARAMETRIC 4.000 .000 5.000	ELV-0B = MACH =	3.000 .600 10.000

.00057

.00004

.00020

.00877

.00799

.00022

45.000

60.009

GRADIENT

-.05645

-.05447

.00180

.04651

.03931

-.00275

-.00065

.00095

-.00024

CA20 (747/1 02 51) - (747/1) D/5 (130 - 035)

(UGN130) ( 25 NOV 75 )

#### REFERENCE DATA PARAMETRIC DATA ALPHAC = 4.080 EETAC -.000 XMRP = 1339.9000 IN.XC SEEF - 5500,0000 50.FT. 3.000 ELV-18 = .000 ELV-CB = YMRP -.0000 IN.YC LRSF = 327.7800 IN. ELEVON = 5.000 MACH = .600 EREF - 2348,6400 IN. ZMRP = 190.8000 IN.ZC 10.000 .0300 FHI .000 ĐХ SCALE = .000 DY .000 BETAO = GN/L = 3.31 GRADIENT INTERVAL = .00/ 12.60 ALPHAO = 14.000 DCLN DCY DCEL DCYN DCL DCD DCSL DCN DCA DCLM DZ -.06409 .08626 .00147 -.00395 -.22415 -.01726 .00105 .000 -.22473 .28700 .60623 .00732 .28081 .00405 .00114 -.00255 -.21716 -.01546 .00087 -.02257 3.000 -.21753 -.00134 -.01161 .00064 -.00191 -.28008 .24765 .00235 .00079 -.19994 7.580 .08935 -.000BS .00168 .00864 -.00079 -.16952 -.00651 .00055 15.000 -.16927 .01124 .10241 .01109 .11721 .000E2 .00026 .00005 -.12854 -.00236 .00028 .00003 ZD.000 -.12808 .08416 -.00001 .00010 E#800. -.10119 -.00058 .00014 .00042 45.000 -.10070 .01000 .00805 .00038 -.08298 .00036 .00009 .08033 -.08249 .08903 .05450 .00007 60.080 .00035 .00042 -.08591 -.00051 -.00809 .00034 .00327 .00076 -.00005 GRADIENT .00334 CAED (747/1 02 51) - (747/1) D/S (131 - 035) (UGN131) ( 25 NOV 75 ) PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 .000 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC BETAC = YMEGP = .0000 IN.YC ELV-IB -.000 ELV-08 = 3.000 LREF = 327.7880 IN. ELEVON = 5.000 MACH = .600 ZMGP = 190.8000 IN.ZC EREF = 2348.0400 IN. ĐΧ 20.000 PHI .000 SCALE = .0300 DY .000 EETAO = .000 RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000DCD DCSL DCLN DCLH DCY DCBL DCYN DCL, DCN DCA DΖ -.00101 -.12902 -.88471 .00074 -.00190 . 12995 .00205 .00093 .000 -.12981 .00880 -.00122 .12765 .00149 .00074 -.00115 -.12601 -.00336 .80081 -. 12567 .00983 3.000 -.00039 .00046 -.00834 -.11603 -.00166 .00842 .11005 .00828 -.11557 .01048 7.500 .00018 .00019 -.10239 -.00012 .00019 .00017 -.10175 .01058 .08590 -.00017 15.000 -.00021 .00104 -.08381 .00116 -.00010 .00105 .05892 -.00167 30.000 -.08024 .08960

-.00010

.00010

-.00006

.00068

.00005

.00020

-.05701

-.05508

.00177

.00178

.00220

.00040

-.00004

-.000034

GRADIENT

-.08024

.00169

TABULATED SOURCE DATA - CA20

PAGE 817

.00171

.00021

		CASO	(747/1 02	SII - (747/	11 0/5	(131 - 035)		(UGN13	1) (25 %)	W 75 )
REFERENCI	E DATA						f	PARAMETRIC	DATA	
SREF = 5500.0000 SQ.I LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	YHRP	00	80 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-1B = ELEVON = PHI = OY =	4.000 .000 5.000 .000	BETAC = ELV-08 = MACH = DX = BETAO =	.000 3.000 .600 .000 .000
		RN/L =	3.30 G	RADIENT INTE	ERYAL =	.00/ 12.00				
ALPHAO = 14.000										
DZ	DCN	DCA	DCLM	DCY	DCBL.	DCYN	DCL	DCD	.09080	DCLN 00279
.000	19292	.00335	.27564	.00330	.00108	00269	19221	01693	.00057	00202
3.009	18726	.00507	.27045	.00256	88900.	00194	18577	01453 01070	.00057	00104
7.509	17281	.00741	.23938	.00147	.00057	00099	17263 14980	00631	.00035	00002
15.000	-,14964	.00939	.18354	.00022	.00035	.00002	11571	00280	00001	.00077
33.000	11536	.00931	.11999	00117	00009	.00077	09397	00069	.00001	.00070
45.080	09343	.08913	.08639	00083	00007	.08070	07872	.00038	00009	.00001
60.080	07825	.00860	.06576	00110	00017	.00000	.09265	.08082	00003	.00023
GRADIENT	.00272	.00054	00500	00024	00005	.00023	.08555	.00065	00003	
REFERENC	·	CA20	(747/1 02	S1) - (747.	/1) D/S	(132 - 035)		(UGNI3		OV 75 )
REFERENC	E UAIN									***
SREF = 5500.0000 SQ.	FT. XHRP	= 1339.90	000 IN.XC				ALPHAC =	B.000	BETAC =	.000
LREF - 327.7800 IN.	YHRP	= .00	100 IN.YC				ELV-IB =	.000	ELV-OB *	3.000
BREF - 2348.0400 IN.		= 190.80	100 IN.ZC				ELEYON =	5.000	MACH =	.600
SCALE = .0300							PH! =	.000	DX =	.000
							DY =	.000	EETAO =	.000
		RN/L =	3.29 6	RADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 10.000				AAV.	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
DZ	DCN	DCA	DCLH	DCY	.00934	00239	10363	02075	00008	00241
.000	10566	08244	01866	.00101 .00017	.00019	00161	69897	02074	00009	00162
3.000	10058	00332	01842	00050	.00019	000B0	09389	02037	00007	00080
7.500	→.09296	00429	01798 01475	~.00073	00007	00085	08035	01973	00003	00004
15.000	08255	08547 - 00556	01100	00014	.00001	.00014	06325	01822	.08013	.00012
30.000	06546	005 <del>96</del> 00739	00356	.08085	.00046	00005	05273	01671	.08044	00013
45.000	05483	00739	.00253	.00051	.00073	.00010	04530	01518	.00074	00003
60.000	64725	00708	00000	- 00031	÷.000.0	18081	.00171	.00005	.00000	.00021

-.00021

.000009

-.00084

(UGN132) ( 25 NOV 75 ) CA28 (747/1 02 St) - (747/1) D/S (132 - 035)

DEFERENCE	DATA	
DELCT CHEST	****	

# PARAMETRIC DATA

SREF =	5500.0000	SQ.FT. X	CHRP	-	1339.9000	ALPHAC :		BETAC ELV-08		.000 3.000
LREF =	32 <b>7.7</b> 800 2348.0400	••••	HRP HRP		.0000 190.8000	ELEVON	<b>5.0</b> 00	HACH	•	.600
SCALE -	.0300					PHI	900.	DX PETAN	-	880. 886.

#### RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.080 0Z .080 3.000 7.500 15.090 95.090 96.000 GRADIENT	00% 19127 16077 16072 13571 10147 07895 06209 .00410	DCA 00343 00332 00436 00569 00762 00816 00762 00013	00LH .09657 .08926 .06210 .03694 .01620 .00772 .00584 00469	DCY .00043 .00027 00060 0003 00144 00110 00002 00007	DCBL .09074 .08053 .00039 .00001 00055 00065 00075	DCYN00251001660011900933 .00053 .0003300004	DCL 18777 17745 15752 13365 09962 07633 06081 .00405	9CD 03659 03468 03220 02935 02503 02175 01846 .00059	0001 .00029 .00020 .00018 00004 00045 00058 00074 00001	0018 0018 00184 00033 00082 00084 00089
----------	----------------------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------	---------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------------	-----------------------------------------------------------

CA20 (747/1 02 S1) - (747/1) D/S (133 - 035)

(UGN133) ( 25 NOV 75 )

### REFERENCE DATA

### PARAMETRIC DATA

				12460	_	1359.9000	IN YE	ALPH	LAC :	-	8.000	BETAC	•	.000
SREF	-	5500.0000						ELV-	18	_	.000	ELV-0B	•	3.000
LREF	•	327.7800	IN.	AS RUCH	-	.0000		ELEV			5.000	MACH		.600
EREF	_	2348.0480	IN.	ZMRP	•	190.6000	IN.ZC	<del></del> -	O.V	-				
		-						PHI		-	.000	ĐΧ	=	10.000
SCALE	-	.0300						· DY		-	.000	EETAO	=	-000

## GN/L = 3.32 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000 02 .000 3.000 7.500 16.000 20.000 46.000 GRADIENT	DCN 09286 09017 09374 07460 06095 05169 04255 .00126	DCA 00429 00470 00535 00618 00686 00622 00545 00014	DCLH016230142801394012460076800045 .00418 .00029	00272 .00220 .00121 00053 00025 .00019 .00002	00128 .00128 .00107 .00085 .00048 .00045 .00095 .00107	DCYN 00256 00167 00101 .00012 .00028 .00008 .00032	OCL 09169 08789 08154 07239 05584 04982 04065	DCD 02852 02029 01992 01904 01734 01510 01276 .00009	0051 .00082 .00073 .00056 .00049 .00049 .00085 .00111	DCLN 00274 00203 00114 .00003 .00020 00009 .00013
----------	----------------------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------------------------	--------------------------------------------------	-----------------------------------------------------------------	-----------------------------------------------------------------------------	-------------------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------

### TABULATED SOURCE DATA - CA20

PAGE 819

			CARD	(747/1 0	12 SI) - (747	7/1) D/S	(133 - 035	,	(UGN13	33) (25 K	0V 75 )
	REFEREN	CE DATA							PARAHETRIC	DATA	
SREF = LREF = BREF = SCALE =	327.7800 IN	. YMRP	00	000 IN.XC 000 IN.YC 100 IN.ZC				ALPHAC = ELV-IB = ELEVON = PHI = DY =	8:000 .000 5.000 .000	BETAC = ELV-03 = HACH = DX = BETAO =	.000 3.000 .600 10.000
			RN/L ≠	3.30	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO	= 14.000										
	OZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	0091	DCLN
	.080	15619	00564	.10538	.00147	.00062	00236	15284	03268	.00020	00243
	3.090	14870	00526	.09643	.00115	.00845	00173	14553	03100	.80015	00178
	7.580	13510	00577	.07380	.00037	.00023	00899	13303	02932	.00005	00101
	15.000	11902	00670	.04950	00102	00008	00015	11605	02726	00011	00013
	30.000	09194	00751	.02456	00231	00072	.00097	08924	02336	00056	82000.
	45.000	07401	00756	.01744	00153	00071	.60346	07157	02029	00062	.00057
	69.000	08148	00718	.01354	00119	00089	E#800.	05930	01775	08061	.00054
	GRADIENT	.00269	00002	00427	00015	00805	.00018	.00265	-08044	00002	.08019
	REFEREN	CE DATA	CASB	(747/1 0	2 S1) - (747	//1) D/S	(134 <b>-</b> 035)	•	(UGN13		0 <b>V 7</b> 5 )
eper -					2 SI) - (747	//1) D/S	(134 <b>-</b> 035)		PARAHETRIC	DATA	-
SREF =	5500.0000 SQ	.FT. XHRP	<b>= 1339.9</b> 6	000 IN.XC	2 S1) - (747	//1) D/S	(134 <b>-</b> 035	ALPHAC =	PARAMETRIC 8.000	DATA BETAC =	.000
LREF =	5500.0000 SQ 327.7800 IN	.FT. XHRP , YHRP	= 1339.90 = .00	100 IN.XC	2 S1) - (747	//1) D/S	(134 <b>-</b> 035	ALPHAC =	PARAMETRIC 8.080 .000	DATA  BETAC * ELV-09 =	.000 3.000
LREF =	5500.0000 SQ 327.7800 IN 2340.0400 IN	.FT. XHRP , YHRP	= 1339.90 = .00	000 IN.XC	2 51) - (747	//1) D/S	(134 <b>-</b> 035	ALPHAC =	PARAMETRIO 8.000 .000 5.000	DATA  BETAC = ELV-09 =	.000 3.000 .600
LREF =	5500.0000 SQ 327.7800 IN	.FT. XHRP , YHRP	= 1339.90 = .00	100 IN.XC	2 51) - (747			ALPHAC = ELV-18 = ELEVON =	PARAMETRIC 8.080 .000	DATA  BETAC =  ELV-0B =  MACH =	.000 3.000
LREF =	5500.0000 SQ 327.7800 IN 2340.0400 IN	.FT. XHRP , YHRP	= 1339.90 = .00	000 IN.XC 000 IN.YC 000 IN.ZC	2 SI) - (747 GRADIENT INT	•.		ALPHAC = ELV-18 = ELEVON = PHI =	PARAMETRIC 8.000 .000 5.000	DATA  BETAC * ELV-0B = MACH = OX *	.000 3.000 .600
LREF =	5500.0000 SO 327.7800 IN 2348.0400 IN .0300	.FT. XHRP , YHRP . ZHRP	= 1339.90 = .00 = 190.80	3.27	GRADIENT INT	ERVAL ≅	.00/ 12.00	ALPHAC = ELV-18 = ELEVON = PHI = DY =	8.000 .000 5.000 .000 .000 .000	DATA  BETAC * ELV-OB = MACH = OX * BETAO =	.000 3.000 .600 20.000
LREF = BREF = SCALE =	5500.0000 SQ 327.7800 IN 2348.0400 IN .0300	FT. XHRP , YHRP ZHRP	= 1339.90 = .00 = 190.80 RN/L =	3.27	GRADIENT INT	ERVAL •  DCBL	.00/ 12.00 DCYN	ALPHAC = ELV-18 = ELEVON = PHI = DY =	8.000 .000 5.000 .000 .000	BETAC * ELV-DB = MACH = OX * BETAO =	.000 3.000 .600 20.000 .000
LREF = BREF = SCALE =	5500.0000 SQ 327.7800 IN 2348.0400 IN .0300 = 10.000 QZ .000	FT. XHRP YHRP ZHRP DCN 07538	= 1339.90 = .00 = 190.80 RN/L =	3.27  DCLM03481	GRADIENT INT DCY .00026	ERVAL •  DCBL .00012	.00/ 12.00 DCYN 00148	ALPHAC = ELV-18 = ELEVON = PHI = DY =	8.000 .000 5.000 .000 .000 .000	BETAC = ELV-0B = MACH = OX = BETAO = DCSL - 00014	.000 3.000 .600 20.000 .000
LREF = BREF = SCALE =	5500.0000 SQ 327.7800 IN 2348.0400 IN .0300 = 10.000 OZ .080 3.000	FT. XHRP , YHRP . ZHRP . DCN 07538 07435	= 1339.90 = .00 = 190.80 RN/L = OCA 00597 00591	3.27  DCLH03481	GRADIENT INT DCY .00026 00074	DCBL .00012 00016	.00/ 12.00 DCYN 00148 00073	ALPHAC = ELV-18 = ELEVON = PHI = DY = DCL0731907225	8.000 .000 5.000 .000 .000 .000	BETAC * ELV-0B = MACH = OX * BETAO = DCSL0001400029	.000 3.000 .600 20.000 .000 DCLN 00148 00059
LREF = BREF = SCALE =	5500.0000 SQ 327.7800 IN 2348.0400 IN .0300  10.000  02  .080 3.000 7.500	FT. XHRP YHRP ZHRP OCN 07538 07435 07003	= 1339.90 = .00 = 190.80 RN/L = OCA 00597 00561 00509	3.27 DCLM 034B1 02354	DCY .00026 00074 0029	DCBL .00012 00016 00050	.00/ 12.00 DCYN 00148 00073 00003	ALPHAC = ELV-18 = ELEVON = PHI = DY = DCL073190722506791	8.000 .000 5.000 .000 .000 .000	DATA  BETAC * ELV-0B = MACH = OX * BETAO *  DCSL000140002900050	.000 3.000 .600 20.000 .000 .000 PCLN 00148 0006
LREF = BREF = SCALE =	5500.0000 SQ. 327.7800 IN. 2348.0400 IN0300  10.000  02 .080 3.000 7.500 15.000	FT. XHRP , YHRP ZHRP DCN 07538 07435 07003 06126	= 1339.90 = .00 = 190.80 RN/L = OCA 00597 00561 00609 00569	3.27 DCLM 03481 02516 02354 02244	DCY .00026 00074 00209 00316	DCBL .00012 00016 00050 00111	.00/ 12.00 DCYN 00148 00073 00003	ALPHAC = ELV-18 = ELEVON = PHI = DY = DCL07319072250579105917	8.080 .000 5.000 .000 .000 .000 .000	DATA  BETAC * ELV-08 = MACH = OX * BETAO =  DCSL00014000290005000097	.000 3.000 .600 20.000 .000 .000 DCLN 00148 00069 .00066
LREF = BREF = SCALE =	5500.0000 SQ 327.7800 IN 2348.0400 IN .0300 - 10.000 OZ .000 3.000 7.500 15.000 30.000	.FT. XHRP YHRP ZHRP DCN 07538 07435 07603 05126 05122	= 1339.90 = .00 = 190.80 RN/L = OCA 00597 00591 00509 00568	3.27  DCLH0348102516023540224400926	DCY .00026 00074 00209 00316 00273	DCBL .0001200016000500011100074	.00/ 12.00  DCYN001480007300003 .00069	ALPHAC = ELV-18 = ELEVON = PHI = DY = DCL0731907225057910591704952	9.000 .000 5.000 .000 .000 .000 .000 .00	DATA  BETAC * ELV-0B = MACH = OX * EETAO =  DCSL0001400029000500009700060	.000 3.000 .600 20.000 .000 .000 000 2000 .000 .000
LREF = BREF = SCALE =	5500.0000 SQ 327.7800 IN 2348.0400 IN .0300 - 10.000 02 .080 3.000 7.500 15.000 30.000 45.000	PCN0753807635061260512204612	- 1339.90 - 000.80 RN/L - OCA 00597 00591 00599 00598 00532 00410	000 IN.XC 000 IN.XC 000 IN.ZC 3.27 DCLM 03481 02516 02354 02244 00226 00139	DCY .000260007400209003160027300179	DCBL .8001200016000500011100074 .00074	.00/ 12.00  DCYN001480007300003 .00069 .00076	ALPHAC = ELV-18 = ELEVON = PHI = DY = DY = OCL073190722505917059170495204471	8.000 .000 5.000 .000 .000 .000 .000 .00	DATA  BETAC ** ELV-0B = MACH = OX ** EETAO **  DCSL0001400029000500009700060	.000 3.000 .600 20.000 .000 .000 00148 00059 .00059 .00029
LREF = BREF = SCALE =	5500.0000 SQ 327.7800 IN 2348.0400 IN .0300 - 10.000 OZ .000 3.000 7.500 15.000 30.000	.FT. XHRP YHRP ZHRP DCN 07538 07435 07603 05126 05122	= 1339.90 = .00 = 190.80 RN/L = OCA 00597 00591 00509 00568	3.27  DCLH0348102516023540224400926	DCY .00026 00074 00209 00316 00273	DCBL .0001200016000500011100074	.00/ 12.00  DCYN001480007300003 .00069	ALPHAC = ELV-18 = ELEVON = PHI = DY = DCL0731907225057910591704952	9.000 .000 5.000 .000 .000 .000 .000 .00	DATA  BETAC * ELV-0B = MACH = OX * EETAO =  DCSL0001400029000500009700060	.000 3.000 .600 20.000 .000 .000 000 2000 .000 .000

EREF = 2348.0400 IN.

.0300

SCALE =

ZHRP = 190.8000 IN.ZC

20.000

.000

ÐΧ

EETAO =

.000

.000

RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00

ALPHAD =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.800 60.000	DCN13336122841198016543085900593705999	OCA 00723 00514 00550 00550 00555 00552 00575	OCLM .09558 .69266 .07642 .69329 .03323 .02749 .02154	DCY .09017 00111 00265 00367 00452 00234 00214 00037	008L .00028 00010 00035 00083 00118 00087 00083	DCYN00167000750003400093001460006500093	DCL 13008 12581 11618 10270 08285 05718 05781	DCD 03027 02842 02639 02471 02139 01647 01705 .00051	DCSL 00001 00023 00029 00066 00091 00074 00047	0CLN 00169 00072 .00039 .00106 .00164 .00079 .00093
----------	--------------------------------------------------------------------------------	----------------------------------------	--------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------------------------------------	-----------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------	--------------------------------------------------------------------------

(UGN135) ( 25 NOV 75 ) CASO (747/1 02 SI) - (747/1) D/S (135 - 034)

.00/ 12.00

PHI

#### PARAMETRIC DATA REFERENCE DATA

		==00 0000 C	O CT 10	EEP	-	1339.8000	IN.XC	ALPHAC	=	4.000	EETAC	-	-5.000
SREF	4	5500.0000 S						ELV-18	=	.000	ELV-03	•	3.000
LREF	•	327.7800 I		100	0		IN.YC	ELEVON		5.000	MACH		.608
GREF	*	2348.0400 1	N. Z	MRP.	=	190.8000	IN.ZC				DX	-	.000
SCALE	_	.0300						* * * * * * * * * * * * * * * * * * * *	#	.000		_	-
SCHEE	_	.0555						NY	=	10.000	EETAO	-	.000

#### RN/L = 3.27 0/ 0 RUC! NO. DCLN DCD DCL DCY DCBL DCYN DCLH DCA ĐΖ DON ALPHAO .00941 -.08465 -.17223 -.00390 .00984 -.00365 .05399 -.00733 .01422 -.17169 10.000 .000 .00881 -.00354 -.16269 -.00281 -.00262

GRADIENT INTERVAL =

10.000 10.000 10.000 10.000 10.000	3.000 7.500 15.000 30.000 45.000 69.000	16206 14920 13109 10557 08704 06967	.01441 .01437 .01390 .01223 .01012 .00601	.05221 .04706 .04280 .04035 .03227 .02496 ~.00093	01028 01028 01600 02125 01133 00287 00040	.00695 .00735 .00469 .00065 .00034 00015	-,00202 -,00859 .00352 .00555 .00449 .00101	14988 13182 10627 69762 06914 .00297	00131 .00312 .00313 .00097 .00079	.00725 .00503 .00155 .00005 00005	00138 .00301 .00853 .00443 .00102
------------------------------------------------	--------------------------------------------------------	----------------------------------------------------	----------------------------------------------------------	---------------------------------------------------------------------	-------------------------------------------------------------	---------------------------------------------------------	------------------------------------------------------------	-----------------------------------------------------	-----------------------------------------------	-----------------------------------------------	-----------------------------------------------



# TABULATED SOURCE DATA - CA20

CA20 (747/1 02 S1) - (747/1)

PAGE 821

.00649

.00459

.00314

.00076

.00157

.00079

-.00011

-.00039

DENCE	

### PARAMETRIC DATA

SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	YMRP =	9.9000 IN.XC .0000 IN.YC 0.8000 IN.ZC				ALPHAC = ELV-18 = ELEVON = PHI = DY =	4.000 = .000 5.000 .000	BETAC = ELV-09 = MACH = DX = BETAO =	-5.000 3.000 .600 10.000
f	RUN NO. G/	O RN/L =	3.26 GRA	DIENT INTERV	AL = .0	0/ 12.00			
10.000 3.00013 10.000 7.50014 10.000 15.0001 10.000 30.0000 10.000 45.0000 10.000 60.0000	N DCA 4309 .0098 3709 .0103 2778 .0105 1365 .0106 9359 .0102 7013 .0093 6383 .0061 0204 .0001	2 .04841 5 .04705 5 .04186 0 .03782 6 .03147	DCY000620010900435011280174801032 .0007400052	008L .00859 .00813 .00703 .00444 .00066 .00039 .00125 08021	DCYN005440046700240 .00216 .00729 .0040800195	DCL 14332 13742 12819 11414 05414 07859 06413 .00202	000 00521 00407 00276 00128 .00036 .00014 00055 .00032	005L .00796 .00780 .00674 .00465 .00142 .00080 .00104	001N 00631 00550 00312 .00169 .00718 .00401 00207
	c	A20 (747/1 C	)2 SI) - (747	7/13 D/S (	(137 - 035)	1	(UGNI3		OV 75 1

D/S (136 - 034)

### REFERENCE DATA

15.000

30.000

45.000

60.000

GRADIENT

10.000

10.000

10.000

10.080

-.13744

-.10823

-.08763

-.06708

.00353

### PARAMETRIC DATA

-.00050

-.00013

.00027

.00029

LREF = 3	00.0000 SQ.F1 127.7800 IN. 148.0400 IN. .0300	YHRP	01	100 IN.XC 100 IN.YC 100 IN.ZC				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.080 .000 5.000 .000	ELV-OB = HACH = DX = BETAO =	.600 .600
		RUN NO.	0/ O	RN/L =	3.35 GRAD	DIENT INTER	VAL = .0	0/ 12.00			
ALPHAO 10.000 10.000 10.000	3.000 7.500	DCN 18579 17491 15929	DCA .01511 .01512 .01452	DCLH .13851 .12745 .11034 .09509	DCY 00912 00871 01057 01341	008L .01017 .00845 .00661 .00419	DCYN 00765 08532 00225 .00164	ocl 18635 17653 15993 13809	DCO 60439 00325 00221 00105	DCSL .08932 .00785 .00634 .00434	DCLN 00857 00817 00293 .00120

-.01741

-.01130

-.00605

-.00021

.08509

.05664

.04849

.02369

-.00376

.01339

.01097

.00908

.00732

-.00008

.00088

.00031

-.00044

-.00047

.00862

.00465

.00311

.00072

-.10878

-.08310

-.05748

10.000

10.000

10.000

10.000

15.000

30.000

45.000

60.000

GRADIENT

-.47747

-.44792

-.42909

-.41002

.00377

CA20 (747/1 02 51) - (747/1) 0/5 (138 - 035)

(UGN138) 1 25 KOV 75 ) PARAMETRIC DATA REFERENCE DATA .800 4.000 BETAC = XMRP = 1339.9080 IN.XC ALPHAC = SREE = 5500.0000 SQ.FT. ELV-IB = .000 ELV-08 =3.000 .0000 IN.YC YHRP = LREF . 327.7800 IN. ELEVON = 5.000 MACH .600 190.8080 IN.ZC EREF = 2348.0400 IN. ZHRP = 10.000 FH1 .000 DΧ SCALE = .0300 DΥ 10.000 BETAO = -000 RM/L = 3.29 GRADIENT INTERVAL -.00/ 12.00 RUN NO. 0/ 0 DOLN DCBL. DCYN DCL DCD DCSL DZ DCN DCA DCLH DCY ALPHAO .02860 -.00794 -.15816 -.00528 .00772 -.00880 .01107 .12812 -.08414 -. 15586 .000 10.000 .00555 -.00665 -.08593 -.00410 -.14916 .01152 . 12094 -.00442 .08721 10.009 3.00D -. 14877 -.00350 -.00299 .00526 .10479 -.00730 .08550 -.00293-.13792 7.500 -.13747 .01144 10.000 .00376 .08084 -.12166 -.00172 .00393 .00044 -.01103 -.12139 .01103 .08199 15,000 10.000 -.09585 -.00119 .00136 .00581 .00592 .00894 .05407 -.01562.00074 10,000 30.000 -.09544 -.00074 .00060 .00408 -.07925 -.07889 .00755 .03769 -.01085 .00017 .00412 10.000 45.000 -.00232 .00039 .00007 -.06298 -.08011 .00039 .00003 .02324 .00697 60.000 -.68263 10.000 -.00040 .00067 .00244 .00030 -.00032 .00071 -.08044 GRADIENT .00246 .00004 -.00315 ( 25 NOV 75 ) CARO (747/1 02 511 - (747/1) D/S (139 - 036) (UGN139) PARAMETRIC DATA GEFERENCE DATA BETAC = 5.000 ALPHAC = 4.080 XHRP = 1339.9888 IN.XC SREF = 5500.0800 SQ.FT. 3.000 .000 ELV-CB = ELV-IB = AM65 = .0000 IN.YC LREF 327.7800 IN. .600 ELEVON . 5.000 MACH 190.8000 IN.ZC EREF - 2348.0400 IN. ZHSOP .000 PHI .000 ĐΧ SCALE = .0300 10.000 ESTAD = .000 DY GRADIENT INTERVAL . .00/ 12.00 3.25 RUN NO. 0/ 0 RN/L = DCD DCSL DELN DCBL DCYN DCL DCA DCLH DCY ALPHAD ĐΖ DCN -.08003 -.00571 .00782 -.10573 -.00630 .00723 -.51775 .000 -.52631 .03859 .16627 10.080 .01239 -.00859 .01218 -.58565 -.07920 -.00747 -.5:418 .03915 .14494 -.10763 3.000 10.000 -.07850 -.00934 .01625 -.48939 .03785 .11548 -.11254 ~.01107 .01793 -.49795 10.680 7.500 .02388 -.01135 .02261 -.46985 -.07807 .03543 .07613 -.11538 -.01359

-.11648

-.11237

-.10842

-.00092

.03634

.02233

.00799

-.00676

.03285

.03126

.02970

-.00021

-.01614

-.01685

-.01760

-.08063

-.43919

-.42030

-.40117

.00377

-.07755

-.07716

-.07672

.00019

-.01350

-.01429

-.01509

-.08848

.02631

.02563

.02499

.00142

.C2783

.02722

.02555

60.000

GRADIENT

-.06519

.00313

TABULATED SOURCE DATA - CA20

PAGE 823 (UGN140) ( 25 KOV 75 ) CA20 (747/1 02 St) - (747/1) D/S (140 - 036) PARAMETRIC DATA REFERENCE DATA 4.000 BETAC -5.000 ALPHAC = XHRP = 1339.9000 IN.XC SREF = 5500,0000 SQ.FT. 3.000 ELV-IB = .000 ELV-03 = .000B IN.YC 327,7800 IN. YHRP ELEVON = 5.000 MACH .600 190.8000 IN.ZC BREF \* 2348.6460 IN. ZHRP = 10.000 ĐΧ PHI -000 SCALE = .0300 .000 SETAO = DY 10.000 GRADIENT INTERVAL = .00/ 12.00 0/ 0 RN/L = 3.26 RUN NO. DCD DCSL DCLN DCYN DCL DCBL DCLH DCY ΟZ DCN DCA **ALPHAO** .00594 -.48893 -.07957 -.00707 -.00756 .00521 .15248 -.09712 -.49749 .03602 .000 10.000 -.00641 .01157 -.00938 .01068 -.48179 -.07877 -.09989.03608 .13664 10.000 3.000 -.49841 -.01007 .01803 -.47072 -.07846 -.01170 .01693 .11043 -.10558 7.509 -.47937 .03523 10.000 .02309 -.01154 -.45353 -.07785 -.11134 -.01359 .02180 .07568 -.46221 .03404 15.000 10.000 .02741 -.42843 -.07767 -.01371-.01630 .02598 -.11405 .03160 .03599 10.000 30.000 -.43723 .02650 -.01432 -.41220 -.07725 .02490 .02399 -.10985 -.01692 45.000 -.42104 .03032 10.000 -.01459 .02410 -.01699 .02249 -.39786 -.07666 -.10396 -.40672 .02941 .01834 10.000 60.000 -.08848 .00147 .00142 .00242 .00014 -.00055 -.00011 -.00562 -.00128 .00242 GRADIENT (UGN143) ( 25 NOV 75 ) CA20 (747/1 01 S1) - (747/1) 0/5 (143 - 035) PARAMETRIC DATA REFERENCE DATA EETAC = .000 ALPHAC = 4.000 XMRP 1339.9000 IN.XC SREF - 5500.0000 50.FT. 15.000 15.000 RUD-L = RUD-U = YHRP .0000 IN.YC 327.7800 IN. ELEVON = 5.000 AILRON = .000 190.8080 IN.ZC BREF = 2348.0400 IN. ZHRP .000 אם .000 PHI .0300 SCALE = .000 .000 EETAD = .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.27 ALPHAO = 10.000 DCLN DCSL DCL DCD DCY DCBL DCYN DCA DCLH DZ DCN -.02419 -.02380 -.17455 -.00155 .00250 .00495 .14988 .04033 .01789 .080 -.17392 .00253 -.02495 -.16746 -.00073 -.02457 .04272 .00505 .01601 .14342 3.000 -.16579-.02591 .00252 -. 15144 .00081 .11579 .04491 .00514 -.02552 -. 15071 .01798 7.500 -.02518 -.02591 -.13143 .00241 .00237 .00502 .09285 .04577 .01759 15.000 -.13065 -.02639 -.10305 .00332 .00214 -.02634 .00481 -.10235 .01572 .06558 .04670 30.000 .00230 -.02701 -.08547 .00344 .04799 .00502 -.02654 .05265 .01411 45.080 +.08484 -.02746 -.05574 .00365 .00235 .00512 -.02708

.03592

-.00467

.01239

.00001

.04905

.00059

-.00023

.00003

-.00023

.00000

.00032

SCALE = .0300

----

ZMRP = 190.8000 IN.ZC

.000

.000

.000

CA20 (747/1 01 S11 - (747/1) D/S (143 - 035) (UGN193) ( 25 NOV 75 ) \* REFERENCE DATA PARAMETRIC DATA SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC ALPHAC = 4.000 BETAC = .000 LREF = 327.7800 IN. YHRP = .0000 IN.YC RUD-U = 15.000 RUB-L = 15.000 BREF = 2348.6400 IN.

> RN/L = 3.23 GRADIENT INTERVAL = .00/ 12.00

ALPHAO = 14.000 ĐΖ DCN DCA DCLH DCY DCBL DCYN DCL DCD DOSL DOLN .000 -.25788 .01542 .25967 .04346 .00591 -.02566 -.25698 -.01229 .00325 -.02613 3.000 -.24827 .01592 .24938 .04425 .00573 -:02559 -.24834 --01092 .00309 -.02603 7.500 -.22903 .01713 .22056 .04451 .00563 **-.** £2554 -.22932 -.00781 .00229 -.02523 15.000 -.19461 .01876 .04832 .16972 .08579 -.02734 -.19922 -.00275 .00297 -.02779 30.000 -.14836 .01764 .11261 .04741 .03516 -.02548 -.14989 .00091 .00244 -.C2697 45.000 -.11663 .01618 .0B307 .04777 .00518 -.02661 -.11933 .00218 .00245 -.02700 60.000 -.08830 .01452 .05326 .04831 .00522 -.02692 -.08946 .00346 .0024B -.02722 GRADIENT .00377 .08023 -.00528 .00013 -.00804 .00002 .00373 .00050 -.00003 .00002

CA20 (747/1 02 S1) - (747/1) D/S (144 - 035)

(USN144) ( 25 NOV 75 )

AILRON =

BETAO =

ĐΧ

REFERENCE DATA

### PARAMETRIC DATA

5.000

.000

.000

ELEVON -

PHI

ĐΥ

SREF = 9500.0000 SQ.FT. XMRP = 1329.9000 IN.XC ALPHAC = 4.000 BETAC -.000 LREF = 327.7800 IN. YMRP = .0080 IN.YC RUD-U = 15.000 RUD-L = 15.000 EREF - 2348.0400 IN. ZHRP = 190.8080 [N.ZC ELEVON = 5.000 AILRON = .000 SCALE -.0300 PHI = .000 DХ .020 DY · = .000 EETAO = .000

### RN/L = 3.35 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO =	10.080										
	02	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	17246	.02010	. 10240	.03985	.00481	02336	17332	.80082	.00241	02373
	3.000	16179	.02015	.09355	.04216	.60490	02410	16271	.00192	.00242	02448
	7.500	14611	.01982	.07879	.04451	.00511	02517	14705	.00315	-00253	02555
	15.000	12731	.01894	.06426	.04634	.00513	02599	12227	.00416	.00248	02626
	Z0.000	03923	.01679	.64971	-04796	.00500	02652	10009	.86477	.00229	02689
	45.600	08268	.01503	.04075	.04949	-00520	02724	08343	.00462	.00242	02763
	60.000	06389	.01317	.03025	.05097	.00533	02788	CE453	.00459	.00248	02838
	GRADIENT	.00356	.00001	00295	.00077	.00003	00025	-03354	.00037	.00000	02025

TABULATED SOURCE DATA - CA20 DATE 04 DEC 75

PAGE 825

CA20	(747/1	01	SHI	_	(747/1)	D/S	(145	-	035)	
------	--------	----	-----	---	---------	-----	------	---	------	--

(UGN145) ( 25 NOV 75 )

	REFERE	NCE DATA						1	PARAMETRIC	DATA	
LREF =	509.6000 5 327.7800 1 348.0400 1	N. YHRP		O IN.XC O IN.YC O IN.ZC	·			ALPHAC = ELEVON = DX = BETAO = ELV-OB =	4.000 .002 .000 .000 3.000	BETAC = PHI = DY = ELV-1B = HACH =	.600 .000 .000 .000
			RN/L =	3.37	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO =	10.000									nace.	DC: 41
	DZ	DCN	DCA	DCLH	DCA	DCBL	DCYN	DCL	000	OCST.	DCTH
	.000	15175	.01753	.05998	.00140	.08076	60132	15246	.08937	12009.	00139 00109
	3.000	14511	.01716	.06692	.00134	.08061	00103	14581	.00067	.00050	00103
	7.500	13278	.01647	.05406		.00036	08849	13347	.00120		00035
	15.080	11380	.01479	.03925		.00011	.00026	11441	.00139	.00013	.00023
	30.000	09085	.01243	.02597	00031	00018	.00845	09132	.00131	00014	
	45.000	07452	.01033	.02177		00027	.00033	07486	.00085	00024	.00035
	60.000	05702	.00824	.01578		08042	85000.	05722	.00050	60840	.08030
	GRADIENT	.00255	00014	00218	08013	00005	.00011	.00255	.00611	00004	*00015
			RN/L =	3.36	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	14.608	• ,									
ALFIRO -	DZ	DON	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	r.23670	.01461	. 18939	.00139	.000B7	00165	23672	01099	.8888	00173
	3.000	22836	.01518	.18891	.00065	.00061	00093	22847	00989	.00050	00099
	7.500	A	.01655	.15548	.00089	.08047	08080	20717	<b>0059</b> 9	.00038	00065
	15.000		.01651	. 1 1248	.00026	.08033	08055	17572	00296	.00027	00053
	30.000		.01446	.07014	00056	00016	.00054	13287	00076	00011	.00055
	45.000		.01227	.04937	00012	00000	.00038	10634	00032	00005	.00038
	60.000		.01008	.02854	.00032	00000	.02020	07992	.00012	-00801	.00019
	GRADIENT	.00405	.08028	00463	<b>0</b> 0006	00005	.08011	.00400	.00088	00004	.08011

.08939

.08011

-.07034

.00271

60.000

GRADIENT

PAGE 926

.00048

.00015

.00018

.00037

-.00028

-.00004

			CARD	(747/1 01	SI) - (747/	1) 0/5	(146 - 035)	t	(USN141	3) ( 25 NO)	75 )
	REFERENCE	DATA				•			PARAMETRIC	DATA	
LREF = 3	00.8080 SQ.F 27.7800 IN. 48.0400 IN. .0308	T. XXHRP YMRP ZHRP		O IN.XC O IN.YC O IN.ZC				ALPHAC = ELEVON = DX = EETAO = ELV-09 =	4.000 10.000 .000 .000	BETAC = PHI = DV : ELV-IB = MACH =	.000 .000 .000 .000
ALPHAO =	10.000 DZ	DCN	RN/L =	3.33 (	GRADIENT INTE	ERVAL =	.60/ 12.00 DCYN	<b>OCL</b>	DCD	DCSL	DCLN
	.080 3.080 7.500 15.000	19406 18800 17399 14795 11516 09345	.01245 .01261 .01322 .01328 .01208	.20790 .19892 .17424 .12127 .07976	80045 00073 00114 00691 00063 00043	.00027 .88013 09011 00018 00049 00034	0085 00038 00025 .00033 .00043	19464 16903 17412 14925 11546 09372	00895 00819 00821 00327 00154 00667	.00018 .00008 00009 00015 00045 00031	00089 00039 .00026 .00034 .00047 .00044

RN/L =	3.27	GRADIENT	INTERVAL .	00/	12.00
--------	------	----------	------------	-----	-------

-.00029

-.000009

.02810

-.00457

ALPHAO *	14.800 DZ .000 3.000 7.500 15.000 30.000 45.000 GRADIENI	00N 27779 26905 269274 21643 16348 12933 05526 .00338	DCA .00827 .00933 .01071 .01405 .01399 .01349 .01104 .00931	DCLM .32277 .30304 .27184 .21068 .13190 .08937 .04749 00680	DCY .00107 .00084 00029 00059 00120 00086 00047 00019	00851 .000851 .00030 00031 00081 00080 00011	OCYN00178001340005800005 .00061 .00063 .00063	DCL 27695 26941 25227 21647 16375 12560 09554 .00331	DCD 02147 01984 01655 00989 08440 00253 00062	00052 .00062 .00039 .00063 00002 00065 00014 00005	0018 00189 00139 00051 00054 .00054 .00054
----------	----------------------------------------------------------------------------------	-------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------	----------------------------------------------------------------	-----------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------	-------------------------------------------------------------------------	--------------------------------------------------------------

-.00030

-.00005

.00045

.00015

-.07057



PAGE 827 TABULATED SOURCE DATA - CA20 DATE 04 DEC 75 (UGN147) ( 25 NOV 75 ) 0/5 (147 - 035) CA20 (747/1 01 S1) - (747/1) PARAMETRIC DATA REFERENCE DATA 4.000 BETAC -.000 ALPHAC = 1339.9000 IN.XC XHRP = SREE - 5500,0000 SQ.FT. .000 10.000 PHI ELEVON = .0008 IN.YC YHRP = 327.7800 IN. .000 .080 DY BREF = 2348.0400 IN. ZHRP = 190.6000 IN.ZC -000 BETAD = .000 ELV-18 = .0300 SCALE = 3.000 ELV-09 = .00/ 12.00 GRADIENT INTERVAL = RN/L \* t.89 ALPHAO = 10.000 DCSL DCLN DCYN DCL DCD DCGL DCY DCLH DCA DCN DZ -.00078 -.22224 -.01701 .00841 -.00073 .00049 .17604 -.00378 .00731 -.22293 .080 -.00012 -.01605 .00021 -.21675 .00023 -.00009 -.00411 .16463 .00772 3.000 -.21737 .00000 .00065 -.81412 .08865 -.20306 -.00008 -.00429 -.20356 .00828 .13344 7.500 .00108 -.00002 -.18093 -.01153 -.00437 -.00012 .00107 .00967 .08593 -. 18135 15.000 -.00026 .00131 -.15381 -.00541 -.00039 .00128 -.08492 -.15411 .00809 .04599 30.000 .00152 -.00044 -.13374 -.00874 .00147 -.00528 -.00059 .01653 .00578 45.000 -.13407 -.00783 -.00066 .00171 .00163 -.11248 -.00572 -.00082 -.00945 -.11283 .00552 60.000 .00039 -.80005 .00019 .00260 .00018 -.00007 .00013 -.00578 -,60007 .00262 GRADIENT (USN14B) ( 25 NOV 75 ) D/S (148 - 035) CA20 (747/1 DI S1) - (747/1) PARAMETRIC DATA REFERENCE DATA -000 BETAC = ALPHAC = 4.080 XHRP 1339.9000 IN.XC 5500.0000 SQ.FT. PHI .000 ELEVON = 10.000 .0000 IN.YC YHRP 327.7800 IN. .000 DY DX .000 190.8000 IN.ZC ZHRP = BREF = 2349.0400 IN. .000 .000 ELV-18 -BETAC = .0300 SCALE = ELV-OB = 3.000 GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.54 ALPHAO = 10.000 DCSL DCLN COG DCL. DCBL DCYN DCLH DCY DCA DCN DZ -.00181 -.00695 .00051 .00069 -.00175 -.19197 .00271 .01421 .26302 .000 -.19179 .00032 -. CD135 -.18420 -.00553 -.00131 .00046 .2505B .00264 -.18393 .01485 3.000 -.16748 .00026 -.00073 -.00309 -.00070 .22429 .00198 .00034 -.16705 .01564 7.500 -.00051 .00005 -.13719 .08044 .00208 .00011 -.00050 .01615 .16715 -.13657 15.000 -.00001 -.00050 -.09936 .00335 .00005 -.00049 .00276 -.09865 .01532 .11840 30.000 -.00001 -.000006 .00446 -.00006 -.07442 .00000 .09296 .00!50 .01402 45.000 -.07374

.06646

-.00522

.01275

.00019

-.04755

.00334

60.000

GRADIENT

.00060

-.00010

-.00003

-.00005

.00029

.00014

-.00001

-.00003

.00571

.00052

-.04821

.00330

.00029

GRADIENT

.00329

.00016

-.00423

PAGE E29

CARD	(747/	O1	51)	-	(747/1)	0/5	(149 - 1	035)
------	-------	----	-----	---	---------	-----	----------	------

(UGN149) ( 25 NOV 75 )

-.00011

.00050

.00335

.00025

.00067

			CAEU	(14)); 0	1 317 - 1747	217 575	1173 - 0007		.00.44		
	REFERE	ICE DATA							PARAMETRIC	DATA	
	5500.0000 SC		• •	00 IN.XC				ALPHAC = ELEVON =	4.080 5.080	EETAC =	.000
	327.7800 lf			OD IN.YC				DX =	.000	BY =	.000
	:3:8.6400 IN	i. ZHRP	= 190.00	09 IN.ZC				EETAO =	.000	RU9-U =	.080
SCALE =	.0300							RUD-L =	.000		*****
								1105 -	,,,,,		
			RN/L =	3.34	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHA9 =	10.000										
	DZ	DCN	DCA	DCLM	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	.000	1 <b>7</b> 393	.01267	. 15199	08245	.00508	00239	17363	00654	.00480	00239
	3.000	16552	.01270	.14051	00635	.00434	00153	16559	00571	.00416	00197
	7.500	15124	.01214	.12085	01257	.00329	.00110	15142	+.004ES	.00338	.00075
	15.000	1 <b>2931</b>	.01229	.08330	02315	.00051	.00253	12961	00254	.00137	E#830.
	30.000	10071	.01061	.65393	02233	00162	.01065	10095	00139	00054	.01076
	45.000	03162	.01032	.03908	00919	00683	.06458	02213	.00018	00937	.00462
	69.000	05169	.08557	.02293	.00212	00661	00003	06142	.00147	00082	00002
	GRADIENT	.00269	08083	08428	00657	00024	.00847	E8290.	.00022	00019	.00050
			RN/L □	3.29	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.080										
	DZ	DOM	DCA	OCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	24663	.01174	.23923	00029	.08594	08744	24828	01497	.08584	00800
	3.000	24353	.91174	.24444	00308	.08553	08549	24324	01447	.00493	00503
	7.500	22333	.01283	.20941	00719	.00452	00251	22380	01135	.00424	00255
	15.000	19264	.01323	. 16302	01495	.00293	.00323	19293	00793	.00324	.0029!
	30,000	14548	.01245	.10045	02433	00059	.01059	14570	00397	.00050	.01869
	45.880	!1515	.01148	.06289	01641	00112	.00790	11543	00195	00032	-00797
	69.000	- 06461	.01644	.03714	00878	00173	.00530	08492	.00001	00119	.08544
								A 4 7 7 7 7	00000	20011	0000

-.00091

-.60016

TABULATED SOURCE DATA - CA20

PAGE 829

# CARD (747/1 01 SI AT38 AT39) - (747/1 01 SI)

( 11 MAR 75 ) (VGN045)

-.60009

-.00002

.00974

-.00044

.05441

-.00399

.00101

.00034

	REFERENCE	DATA						þ	ARAMETRIC	DATA	
LREF .	690.0000 SQ.F 474.8100 IN. 935.6800 IN.		00	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = ELV-18 = ELEVON = PHI = DY =	.000 .000 5.000 .000	BETAC = ELV-OB = HACH = DX = EETAO =	.000 3.000 .000 .000
			RN/L =	3.23 G	RADIENT INTE	ERVAL = -1.	.00/ 4.88				
ALPHAO =	8.000 DZ .000 3.000 7.500 15.000 30.000 45.000 GRADIENT	DCN .64763 .02935 .02498 .02327 .02152 .60087 11592 00509	DCA 08052 .00237 .00322 .00371 .08415 .00716 .03798 .08043	DCLH 02173 00793 00469 00340 00150 .00886 .00287 .00268	0CY 00078 .00001 .00065 .00059 .00022 .00042 .00028	008L 0057 0060 0038 0038 0046 00124 00513 .00884	9CYN .00027 00091 00029 00026 00030 .00195 .01793 00016	DCL .04695 .02843 .02480 .02226 .02046 00037 11997 00510	000 .00513 .00540 .00559 .00578 .00594 .00673 .02443	005L 00054 00082 00043 00094 00051 00101 00304 .00001	DCLN .0003B .0008B 00022 00019 00022 .00269 .01635 00016
			CA20	(747/1 0	SI AT39 AT	391 - (747/	1 01 51)		(VGN04	6) (11 HA	R 75 )
	REFERENC	E DATA						ı	PARAMETRIC	DATA	
SREF = 1 LREF = BREF = SCALE =	2690.0000 SQ. 474.8100 IN. 936.6800 IN. .0390	FT. XHRP YHRP	0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.000 .000 5.000 .000	BETAC = ELV-09 = MACH = DM = BETAO =	.000 3.000 .600 .000
			RN/L =	3.33	SRADIENT INT	TERVALI	.03/ 4.60				
ALPHAO =	12.000 DZ .000 3.000 7.500	OCN .07693 .05848 .65073 .05501	DCA 00419 00253 00151 00161	DCLH 80714 .00141 .00652 .06414	DCY 00219 00169 00176 08164	0CBL 08011 00026 00030 00015	DCYN .00859 .00075 .00089 .00080	DCL .07074 .05918 .05939 .05460	000 .00965 .00872 .00918 .00397	DCSL .60001 00010 00011 .00002 00017	DCLN .00050 .00081 .00093 .00093

.00026

\$1000.

.00341

.00231

.00012

.08039

.05530

.05515

-.00399

45.000

60.000

GRADIENT

-.00033

-.00003

.00095

· · ·

CA20 (747/1 DI SI AT38 AT39) - (747/1 DI SI) (YGND47) ( II MAR 75 )

REFERENCE DATA		

SREF LREF BREF	<b>E</b>	935.6800 IN.	XIMRP YMRP ZMRP	-	1109.0000 IN.XO .000 IN.YO 375.0000 IN.ZO	ALPHAC = ELV-1B = ELEVON = FH1 =	.000 5.000	BETAC ELV-OB MACH DX	# #	009. 000.E 009.
SCALE	-	.0308				DA =		EETAO	-	.000

# SN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO =	16.600 DZ .009 3.000 7.500 15.000 50.000 60.000 GRADIENT	DCN .10308 .07160 .06582 .06587 .05587 .05282 .05281	BCA .00778 .01404 .01584 .02032 .02501 .02661 .02385 .00148	0CLH 02197 .00289 .00411 .00169 .00112 00133	0CY 00003 .00117 .00304 .00571 .00728 .00819 .00844 .00049	0084 .00109 .00099 .00017 00199 00389 00428 00470 00084	DCYN .00042 00014 00090 00203 00288 00269 00249 00020	DCL .09489 .06289 .05750 .05384 .04509 .04080	000 .64563 .04305 .04312 .04648 .04662 .64972 .04868	00121 .00121 .00096 00022 00239 00447 00462 00533 00009	DCLN .00008 00042 00094 00149 00162 00157 00140 00019
----------	----------------------------------------------------------------------------------	---------------------------------------------------------------------------	-------------------------------------------------------------------------------------	----------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------------------------------------------------	-------------------------------------------------------------------------------	-----------------------------------------------------------------	---------------------------------------------------------------------------	---------------------------------------------------------------------------------	-------------------------------------------------------------------------------

# CARD 747/1 OL SI AT38 AT39 DELTA GETA=(-5)-(0)

(VGND48) ( 14 MAR 75 )

PARAMETRIC DATA

PARAMETRIC DATA

## REFERENCE DATA

						111 40	ALPHAC	=	4.000	BETAC	•	-5.000
STIEF	₽	2690.0000 SQ.FT.			1169.0000		ELV-18	=	.000	ELV-08	-	3.000
LREF	=	474.8100 IN.	YMRP	77		IN.YO	ELEVON		5.000	MACH	•	.600
CREF	28	936.6800 N.	ZMRP	-	375.0000	IN.20	PHI	_	.000	DX	=	.000
SCALE		.0300					DY	=	.000	BETAD		-5.000

# RN/L = 3.34 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO =	12.000 DZ .000 3.000 7.590 15.000 50.000 45.000 60.000	9CN .02656 .02163 .02537 .02488 .02523 .02501 .02567 00169	9CA 01452 01445 01405 01250 01251 01250 01330 .00002	OCLM 02356 02641 03211 03165 03233 03222 03222 00095	DCY .04655 .04304 .04491 .04944 .05252 .05343 .05303 00117	008L .0125 .0097 .00744 .00525 .00400 .00312 .00263	01704 .01704 .01923 .01690 .01795 .01734 .01731 .01701	021 .02910 .02416 .02774 .02716 .02751 .02727 .02787	00868 00863 00847 00813 00807 00801 00768 00033	005L .01553 .01365 .01121 .00866 .00752 .00665 .00611	01412 .01412 .01676 .01684 .01648 .01613 .01628 .01609
----------	--------------------------------------------------------	------------------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------------	--------------------------------------------------------------------------	-----------------------------------------------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------	----------------------------------------------------------------------------	-----------------------------------------------------------------------------

TABULATED SOURCE DATA - CA20

PAGE 831

<b></b>	-										
			CV50	(747/1 01	S1) - (01 S	1) 0/5	(049 - 010)		(V6N049	) ( II MAR	175 )
								f	PARAMETRIC	DATA	
	REFERENCE	E DATA						_			
		1020	- 1109.000	0X.N1 80				ALPHAC =	.000	BETAC =	.000
	.0000 50.1	FT, XHRP YHRP		OY.NI OC				ELV-IB =	.008	ELV-08 =	3.000
	.8100 IN.	ZMRP		0 IN.20				ELEVON =	5.000	MACH =	.600
	.6800 IN.	Zeru-	- 5(5,00)	,,,,,,,,				PHI =	.000	DX =	.000
SCALE =	.0380							ÐY =	.000	BETAO =	.000
			RN/L =	3.24 0	RADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO = 6	.088				504	OCBL	DCYN	DCL	DCD	OCSL	DCLN
1	DZ	DCN	DCA	DCLH	DCY	00087	80801	07702	00260	00087	.00009
	.000	07687	.00546	.05140	.08003	08086	00008	06619	00344	00057	00001
	3.000	06819	.60349	.03769	.08065	00059	.00025	05809	00312	00066	.00032
	7.500	05810	.00297	.02967	.00087	00857	.00039	04553	0026B	00052	.00045
	15.000	04556	.00289	.01977	.00132		.00105	03323	.08014	00010	.03107
	30.000	03303	.00361	.01216	.00266	00021	00325	.02610	00117	.00118	00340
1	45.000	.02593	00389	02172	.00287	.00153 .01339	03524	.30295	02625	.00952	03544
1	69.009	.29355	05777	18404	01088	.00002	03554	.00247	00006	.00003	.00003
GR	MADIENT	.00245	00032	00281	.08011	.00006	.00004		••••		
			RN/L =	3.31	RADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 10	1.000									DCSL	DCLN
7127 11770 117	DZ	DCN	DCA .	DCLM	DCY	DCBL.	DCYN	DCL	DCD	00053	.88855
	.080	03754	.88714	.07407	00042	00061	.08045	03821	.08051	08024	.00033
	3.000	03126	.00331	.05620	00035	00029	.00029	03136	00217	88897	.00033
	7.500	02772	.00190	.04233	.00009	00014	.00640	02763	00294	.00021	.00063
	15.009	02092	.00119	.02948	.08029	.00010	.00065	02081	00102	.00021	.88877
	30.000	01464	.00145	.01739	.00155	.00026	.00082	01408	00102	.00003	.00014
	45.000	06849	.00154	.08997	.00211	.00005	.08015	00863	.00085	.00022	00218
	69.000	.08934	.60034	00001	.00321	.00058	00211	.00913 .00136	00155	.00006	00801
GF	RADIENT	.00127	00067	03414	.00007	.00005	00000.	.00125	00044	.00000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
4100100 - 11										_	
ALPHAO = I	4.660 DZ	DCN	DCA	DCLM	DCY	DCBt.	DCYN	DCL	DCD	DCSL	DCLN
	.000	.01225	.01733	.05978	08849	08030	.00018	.00770	.01978		.00025
	3.088	.09786	.01403	.04968	00011	08920	.00097	.08423	.01551	00018	.00011
	7.580	08845	.01087	.03780	.00082	00019	00017	00301	.01024		00012
	15.000	00760	.08943	.02644	.00091	00008	40000.	00965	.00731	00007	.00006
	39.600	01160	.00952	.01564	.00157	.00003	.00018	01356	.00544		.00017
	45.000	01402	.00947	.01039	.00204	08010	.00046	01590	.00590		.00047
	60.00B	02156	.01016	.00997	.00299	08040	.00204	02338	.08465		£0500.
a	RADIENT	00171	00088	00291	.00018	.00001	00005	00144	00128	.00000	00005

GRADIENT

-.02292

-.03002

.00130

30.000

45.000

60.000

GRADIENT

.00802

.01207

-.00093

PAGE 832

.00023

.88888

.00445

-.00059

-.02418

-.03285

.00148

.80934

.00032

-.880864

.00034

.00015

100001

.00028

-.00005

UNIE OT DEC	•		CA20	(797/1 01 5	S1) - (01 SI	) D/S (	050 - 0101		(VGN050	3 ( 11 MAF	1 75 )
			QALU					P	ARAMETRIC	DATA	
REF = '	REFERENCE 550.0000 SQ. 574.0100 IN. 525.6800 IN. .0300			0X.NI 00 0Y.NI 00 0Z.NI 00				ALPHAC = ELV-18 = ELEVON = PHI = DY =	.000 .008 5.000 .009	EETAC = ELV-08 = MACH = DX = EETAO =	.080 3.080 .680 10.000
			RWL =	3.25 GR	ADIENT INTE	RVAL =	.00. 12.00				
ALPHAO =	6.689 DZ .600 3.080	9CN 09142 08106 06913	6CA .00270 .00143 .00019	90LH .03878 .02892 .64994	9CY 08072 00932 .00933	OCBL 09871 09064 09053	0CYN 00022 .00002 60003	DCL 09120 08076 06877	DCD 00697 00706 08704 00504	DCSL 00073 00064 00053 00045	0000 00000 00000. 00000.
	7.580 15.680 30.680 45.000 69.680	05918 04075 .04097 .33550	.00105 .00202 01958 12908 00033	.01534 .00842 04635 27039 00247	.00076 .00081 00463 03594 .00014	00045 00024 .00101 .00025	.0005 .00108 .00547 .02968 .00002	65797 04074 .04280 .34517 .00296	00225 01528 09351 00002	00013 .00169 .01131	.00108 .00533 .02250 .00000
	CRADIENT	.00295	RN/L =	•	RADIENT INTE	ERVAL =	.00/ 12.00				
ALFHAD =	10.000 DZ .000 3.000	00N 07289 08191	DCA .80779 .88415	DCLM .06995 .05355	DCY 00125 20843	DCEL 80067 00049	00058 .00035	DCL 07293 06169 04943	DCD 00495 00597 00759	DCSL 00056 00042 00023	DCLN .00059 .00041
	7,590 15,600 30,600 45,600	05000 03970 02654 01578	.00111 .00634 .00138 00803 60646	.03820 .02508 .01467 .00597	.00015 .00049 .00139 .00152	00027 00004 .00007 00011 00021	.00021 .00036 .00074 .00087 .00157	03924 02667 01551 .00738	00607 00330 00276 00926	.00062 .00020 .00004 .00007	.0003 .0007 .0008 .0015
	69.000 GRADIENT	.00839 EE200.	08087	- 88445	.00018 TADIENT INT	.80905 ERVAL =	00805	.00310	-,00034	.00004	-,0000
ALPHAO =	14.000			DCLM	DCY	DCBL.	DCYN	OC1_	DCD	DCSL	DCLN
	.009 3.600	DCN 04692 04331 03724	0CA .01319 .01125 .06833	.07327 .05212 .04342	00039 00002 .00017	.00014 .00016 .00023	.00040 .02020 .00005	04872 04475 03767	.00145 00044 00287 	05000. 45000.	800. 808 889
	7,500 15,000 30,000	03320 02303	.00623	.02855 .01545	.00015	.08050 .80847	02000. 12000. 42000.	02262 02285 02418	00227 14000. 15200.	.00053	.000

.00150

.00344

.00007

.01216

.01476

-.00399

## TABULATED SOURCE DATA - CARD

PAGE 833

D/S (051 - 010)	(VGN951)	( 11 MAR 75 )

	CA20 (7	47/1 01 51)	- (01 S1) D/S	(051 - 010)		(VGN051	) ( II HA	R 75 )
REFERENCE DATA						PARAHETRIC	DATA	
SREF = 2690.0000 SQ.FT. XHRP LRSF = 474.8100 IN. YMRP BREF = 936.5800 IN. ZHRP SCALE = .0300	- 1109.0000 0000 - 375.0000	IN.YO		E F	ALPHAC = ELV-18 = ELEVON = PH! =	.000 .080 5.000 .080	BETAC = ELV-08 = MACH = OX = BETAO =	000. 000.8 000.09 000.09
	RN/L = 3	.24 GRADIE	NT INTERVAL =	.00/ 12.00				
ALPHAG = 6.000								
DZ DCN	DCA D	CLH DC	Y DCBL	DCYN	DCL	DCD	DCSL	DCLN
.0800803	00612 .	.00836 .0	806408073	00050	07895	01445	00079	00052
3.00007659	08434 .	.08963	808308046	08033	07571	01232	00050	00028
7.50007006	00350 .		008708040	02013	06931	01081	00041	00009
15.00005903	00245 .	.00735 .0	009800037	.08017	05845	00861	00035	.00021
30.00004383	00105 .	.00580 .0	021600043	.00055	04328	08562	80037	.00059
45.00001349	.00952	.00900 .0	0085 .00793	.00219	01441	.00805	.00115	-0020B
60.000 .05798	64785	.031740	.00590	.60757	.05266	.05366	.00666	16900.
GRADIENT .00134	.60034 .	. 20000	₩8888. E000	.00005	.00130	.00047	.00005	.00006
	RN/L = 3	.25 GRADIE	NT INTERVAL =	.00/ 12.00				
ALPHAO = 10.000								
DZ DCN	DCA E	OCLM DO		DCYN	DCL	DCD	DCSL	DCLN
.00007213	00030 .		1015100012	00045	07099	01282	00025	00342
3.00805670	0028+		005100038	80013	05534	01359	00937	00006
7.50005904	00284 .		003600036	.00001	05765	01305	00036	.00007
15.00004925	-		010600013	,.00013	04820	01028	00011	.00015
30.00003461	00083 .		100001 25100	.00963	03394	00693	.00015	.00052
45.080024 <del>9</del> 5			1019100023	.00055	02454	00455	00011	.00069
60.00001095			1018600037	.00115	~.01073	00217	00017	OS100.
GRADIENT .00174	00033	.001520	0001408803	.08006	.00177	00002	00002	20009.
	RN/L = 3	3.28 GRADIE	ENT INTERVAL =	.00/ 12.00				
ALPHAO = 14.000								
DZ DCN	DCA (	DCLH DO		DCYN	DC1_	CO	DCSL	DCLN
.00005422	.00006	.02756 .0	00329001 <b>5</b> 5	00308	05263	01305	00225	00259
3.00005285	00285	.02980 .0	95000 26000	80891	05059	~.01555	08049	00081
7,50004979	08431	.027920	00076 .00056	14809.	04727	01623	-00064	.00027
15.08004508	00126	.02201 .0	00055 .00055	.00029	04344	01213	.03051	.00015
30.00003498	.00225		44000. SS10C	.00036	03449	00628	-00051	.00024
45.00002927	.00344	.00965 .0	05000. 04100	.08035	02923	00374	.00037	.00027
60.08002895	.00352	.00730 .0	00305 .08014	.00033	02894	09359	.00021	.00028
GRADIENT .00060	00056	.000011	08052 .00027	.00045	.00072	00040	.00037	.00037

(VGN052) ( 11 MAR 75 )

.00057

.00059

.00060

.80146

-.00006

.00130

.00103

.00096

.08130

.00006

CA20 (747/1 01 SI) - (01 SI) D/S (052 - 010)

.00761

.09765

.00915

.00803

-.00077

-.09367

-.07124

-.05993

-.05468

.00241

15.000

30.000

45.000

60.000

GRADIENT

.03555

.02238

.01656

.01301

-.00393

	REFEREN	KE DATA						I	PARAMETRIC	DATA	
LREF -	2690.0000 50 474.8100 14 474.8100 14 955.6800 14	i. YHRP	00	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = ELV-1B = ELEVON = PHI = OY =	4.000 .000 5.000 .000	EETAC = ELV-03 = MACH = OX = EETAO =	.000 3.000 .600 .000
			RN/L =	3.82	GRADIENT INT	ERVAL -	.00/ 12.60				
ALPHAO =	6.000										
	DZ	DCSS	DCA	DCFH	DCY	DCBL	DCYN	DCL	BCD	DCSL	DCLN
	.030	18690	.08587	.03745	.00143	00075	00053	18627	01287	00080	00045
	3.000	17449	.00669	.03290	.00147	00053	00028	17423	01159	00065	00021
	7.580	15800	.00652	.02811	.00162	00059	00002	15722	01003	00059	+00000.
	15.000	13054	.00524	.02040	.00220	00646	00804	13038	00844	00046	.08001
	30.000	09530	.00653	.01639	.00178	0001 <del>5</del>	.00133	09546	00346	00001	.09134
	95.000	03889	.00334	.00244	.00291	.80849	.00120	03902	00874	.00051	.09114
	60.000	.09371	01043	05451	.01414	00045	00516	.09727	00026	00059	0050B
	GRADIENT	.00350	00002	00123	.00003	.00002	.00007	.00378	.00038	-00063	8000B
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.00				
ALFHAO •	10.000										
	OZ	DCN	DCA	DCLH	DCY	DCPL	DCYN	DCL	DCD	DCSL	DCLN
	.009	19285	.01113	.05265	.00089	00097	00002	15246	01559	00095	.00014
	3.000	14161	.00994	.04513	.60102	00085	080 <b>07</b>	14118	01480	00085	.00008
	7.500	12557	.00311	.03436	.00118	08064	08089	12597	01382	00064	.00002
	15.000	10730	.00732	.02678	.09126	00038	.00020	10694	01142	00034	.00026
	30.000	07669	.00674	.01857	.00161	00013	.00066	07866	00706	00001	.00067
	45.080	05834	.00628	.01206	.00172	00028	.00043	05853	00403	00020	.00047
	60.000	03065	.00475	.00189	.00259	00874	00028	03101	08064	00078	00014
	GRADIENT	.00353	88840	00244	.00004	.00004	00001	.00365	.00023	.00004	00002
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.80				
ALPHAO =	14.000										
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	OCSL	DCLN
	.000	12412	.01372	.07573	00216	.00051	.00121	12375	01672	.00078	.00165
				00000	2012	00007	00000	11610	01824	.00113	.00070
	3.000	11613	.01015	.06008	00174	.00093	.00096	11514			
	3.000 <b>7.5</b> 80	11613 16598	.01015	.06068	00174	.00108	.00095 \$8000.	16472	01897 01898	.00185	.00055

.00112

.00087

.00078

.00091

.60807

.00087

.00077

18000.

.00173

-.00005

-.09272

-.07097

-.05012

-.05500

.00252

-.01528

-.60991

-.00659

-.08544

-.00016

\*\*\*\*\*

-.00115

-.00001

-.00029

-.00050

### TARGLATED SOURCE DATA - CA2B

-.06933

-.05093

.00448

.01439

.01007

-.00452

.08546

.00509

-.03894

-.00292

-.00218

.00000

.00166

.00140

.00013

45.000

60.000

GRADIENT

PAGE 835

-.01123

-.08977

.00017

-.05762

-.05025

.00457

.00140

.00203

→.600002

.00195

.00165

.00012

.00055

.00163

-.000004

			CA20	(747/1 01	SD - (OL S	S1) D/S	(053 - 010)		(VGN05	3) ( [] MA	R 75 )
	REFEREN	CE DATA						1	PARAHETRIC	DATA	
SREF = 2 LREF = BREF = SCALE =	92 0000 50 174.8100 IN 174.8100 IN 174.8100	. YMRP	.00	00 [N.XO 00 [N.YO 00 [N.ZO				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.080 .000 5.000 .000	BETAC = ELV-0B = MACH = OX = BETAO =	.000 3.000 .600 10.000
			RN/L =	3.27 (	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	6.000				****	D0D1	DCYN	DCL	DCD	DCSL	DCLN
	DZ	DCN	DCA	DCLH	DCY	DCBL		19541	01527	00067	00059
	.000	19593	.00523	.02385	.00061	00061 00049	00065 00040	18117	01956	00053	00034
	3.000	18170	.00446	.01925	.00039		00018	16381	01303	00053	00012
	7.500	-, 16428	.08416	.01574	.00043	00051 00042	00010	14022	01037	00042	00005
	15.000	14053	.60434	.01298	.00108 SES00.	00027	.00021	09537	00451	00025	.00024
	30.000	09532	.00548	.01002		00352	00309	01028	.00937	00392	00269
	45.080	00925	.01039	00678	.01284	01475	01387	.14923	.04215	01612	01226
	60.000	.15282	.02632	04636	.04313	.00001	.00006	.00418	.08830	.00002	.00006
	GRADIENT	.60419	00014	00106	00002	.00551	.00000	.00416		10000	
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000								202	Dec	DCLN
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	68917
	.000	18228	.01349	.04780	00155	00081	08031	+,18186	01837	00085	00019
	3.000	16463	.01033	.03421	00136	00059	00029	16392	01842	00062	00019
	7.500	14679	.00874	.02575	80116	08847	~.00014	14608	~.01693	00049	.00015
	15.000	12427	.00763	.01933	03164	00020	.00012	12370	01405	00018	
	39.000	09135	.00591	.01366	08049	.08014	.08085	09114	00915	.00025	.00051
	45.000	06743	.00632	.00971	.08852	00023	.00045	05751	00548	00015	.00048 .00023
	60.000	04102	.60596	.00254	.00221	00107	.00805	04143	00125	00104	.00003
	GRADIENT	.08467	00051	00286	.00005	.00004	.00002	.88471	.00021	.00005	.00002
			RN/L =	3.23	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO =	14.000										
701010 -	DZ	DCN	DCA	DCLH	DCY	DCBs.	DCYN	DCL	DCD	OCSL	DCLN
	.689	16335	.00908	.07495	00519	.00155	.00196	16059	03071	.00198	.00153
	3.000	14656	.00423	.05542	00573	.00199	.00181	14333	03137	.00236	83100.
	7.500	12935	.00175	.04029	00557	.00250	.00164	12594	02959	.00287	.80118
	15.000	16963	.00218	.02984	00539	.00288	.00169	16690	02441	.00325	.00113
	30.000	08273	.00403	.01984	00329	.00204	.00149	08125	01610	.00234	.00055
					****	00150	001110	_ 06769	- 01123	ຕກາເຮັ	.00055

PAGE 836

CA20	(747/1 0)	51) - (0) 51)	U/5 (U24	- 0101

(VGN054) ( 11 MAR 75 )

•	REFERENC	CE DATA						F	ARAMETRIC	DATA	
LREF = "	690.6000 SQ. 974.8160 IN. 926.6800 IN. .0300	. үнгр		10 IN.XO 10 IN.YO 10 IN.ZO				ALPHAC = ELV-1B = ELEVON = PH1 = DY =	4.000 .000 5.000 .000	BETAC = ELV-0B = MACH = DX = BETAO =	.000 .000 .000 .000
			RN/L =	3.25 0	RADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAD =	6.080								000	DCSL	DCLN
	DZ	DC13	DCA	DCLH	DCY	OCBL	DCYN	DCL	DCD 01859	000F/7	00075
	.600	19449	.00165	.00837	.00048	08059	08081	19360	01772	00*57	00061
	3.009	16289	.00132	.00593	.00850	00850	08867	18123	01603	00037	00041
	7.500	16559	.00129	.00431	.00082	08844	08848	15481	01312	08048	00005
	15.000	14399	.00154	.00535	.00894	00041	00010	14339			.00039
	30.000	16552	.00221	.00525	.00174	00015	.00038	10518	00884	00011	.00029
	45.000	86770	.06570	.01228	.00392	00090	.00000	06792	00141	000Bt	.00365
	60.000	65519	.02555	.06591	.00681	08452	.00319	65757	.01974	00416	
	CRADIENT	.00354	09805	00853	.00802	.00002	.00005	.00382	.00036	.00002	.00004
			RIVL =	3.27 (	RADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000								000	DCSL	DCLN
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	0B058	00043
	.000	17554	.08819	. <b>0</b> 2080	09115	08859	00054	17863	02318	•	00037
	3.000	16977	.00773	.01713	00103	00848	08046	16755	02169	00055	
	7.500	15378	.00796	.01344	00095	00039	00029	15282	01887	00844	00022
	15.000	!3970	.00709	.00954	00076	00019	.00001	12995	01572	00010	40000.
	30.000	09774	.00663	.06791	.00020	00018	.00030	09741	01044	00013	.80933
	45.000	07581	.00537	.08641	.00087	00932	.00044	07558	0073B	~.00023	.00049
	60.000	05827	.00803	.00975	.00075	00655	.00107	05843	00418	00035	.00115
	GRADIENT	.00348	00803	00097	.00003	.00803	.00803	.00343	.00059	.09803	.00003
	310.0		RN/L =	3.2 <b>7</b>	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000						*****	001	Den	DCSL	DCLN
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	.00030	.00112
	.000	-,15843	00429	.03069	00434	.00002	.00116	15269	04249	.08055	.00127
	3.000	15632	00270	.03203	00451	.00023	.60136	15103	04844		.00133
	7.590	14235	00208	.02756	08472	.00093	.00160	13762	03545	.00129	.00155
	15.000	12012	60154	.02889	00507	.00218	.00207	11618	03055	.00281	84100. 44100.
	20,000	00549	00807	.01471	00461	.00372	.00241	08390	02099	.00+19 .00261	.00023
	45.000	05579	.00123	.01014	00224	-00535	.00148	85413	01473		
	60.000	03542	.00278	.08489	.08124	.00055	.00077	05541	01053	52000.	.00059 20030.
	GRADIENT	.00222	.00028	00046	08085	.00012	.0000	.00289	.00001	.08013	*06002

ORIGINAL' PAGE IS OF POOR QUALITY

DATE 89 DEC 75

60.000

**GRADIENT** 

-.09484

.00546

.00577

-.00061

TABULATED SOURCE DATA - CA20

CA20 (747/1 01 51) - (01 S1) D/S (055 - 0101 (VGN055) ( 11 MAR 75 ) REFERENCE DATA PARAMETRIC DATA ALPHAC = .000 8.000 BETAC = 2690.0000 SQ.FT. XMRP . 1109.0000 IN.X0 979.8100 IN. .0000 IN.YO ELV-18 = .000 ELV-09 = 3.000 LREE 936.6800 IN. ZHRP 375.0000 IN.20 ELEVON = 5.000 MACH .600 BREF = PHI .000 DΧ .000 SCALE = .0300 ħΥ .000 BETAO = .000 3.22 GRADIENT INTERVAL . .00/ 12.00 RN/L = 6.000 ALPHAD = DOBL DCYN DCL DCD DCSI. DC1-N DCLH DCY DZ DCN DCA -.35251 -.00117 -.00652 -.35096 -.03319 -.00122 -.08848 .000 .00368 .00897 .00224 -.32137 .01764 .00211 -.00087 -.00039 -.32807 -.02921 -.08099 -.00029 .00440 3.008 7.500 -.29057 .00493 .01773 .00149 -.00073 -.00013 -.28950 -.02547 -.00074 +.08085 15.000 -.24409 .00932 .01771 .00188 -.00057 -.00018 -.24340 -.01922 -.00059 -.00012 -.17537 .01727 .00130 -.00035 .00105 -.17522 -.01064 -.00024 .0010B 30.000 .00774 -.60001 -.05720 .00039 .00236 -.98026 45,000 -.06679 .00741 .01364 .00228 ersoo. .02149 -.0:716 60.000 .19879 .00071 .01309 .01584 .01709 -.01043 .19762 .01591 GRADIENT .60915 .00016 .00108 -.00010 .00885 .00005 .00808 .00101 .00006 .00005 RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00 ALPHA0 = 10.000 DCSL DCLN DCBL DCL DCD ĐΖ DCN DCA DCLH DCY DCYN -.03683 -.00162 .000 -.31767 .01892 .04226 .00092 -.00153 -.00063 -.31607 -.00036 .01682 .03543 .00059 -.00114 -.08655 -.29060 -.03425 -.00122 -.00035 -.29215 3.000 -.03076 -.00100 -.00016 7.500 -.26320 .01517 .03124 .08015 -.00098 -.00034 -.26193 15.000 -.22086 .01383 .02603 .00024 -.00067 -.00011 -.21992 -.02469 -.000069 .00001 30.800 -.15992 .01215 .01951 .00012 -.00029 .00041 -.15960 -.01591 -.00022 .00046 -.11885 .01071 .01464 .00032 -.00021 .00039 -.11890 -.01009 -.00014 .00042 45.000 -.07505 -.00490 .00062 -00008 .00828 .00114 .00050 .00019 60.000 -.07476 .01043 .00031 .0000B .00007 .00004 .00717 .00003 GRADIENT .09720 -.00045 -.00143-.00010 RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000 DCLN DCYN DCD DCSL ĐZ DCN DCA DCLH DCY DCOL DCL -.28229 .01190 .07070 -.00264 -.00061 .00058 -.27678 -.05575 -.00043 .60031 .000 -.25711 .00947 .05594 -.00295 -.00024 .00037 -.25152 -.05399 -.00003 .00090 3.600 .04798 -.00379 .00017 .00128 -.22791 -.04549 .00047 .00120 -.23311 .00712 7.500 -.04276 .00181 .00145 .03829 -.00454 .00140 .00184 -. 19231 15.000 -.19694 .00504 30.000 -.14196 .00457 .02759 -.00428 .00250 .00224 -.13865 -.02991 .00297 .00157 .00476 .01959 -.00427 .00257 .00210 -.10721 -.02183 .00300 .00141 -.10931 45.000

-.00377

-.08016

.01509

-.00292

.00223

.00010

.00259

.00000

-.09366

.00642

-.01633

.00097

.00279

.00012

.00197

.00005

PAGE 837

CA20 (747/1 01 S1) - (01 S1) D/S (056 - 010)

(VGNSES) ( 11 MAR 75 )

	REFERENC	E DATA							PARAMETRIC	DATA	
SREF = 1 LREF = BREF = SCALE =	2690.0000 SQ. 474.8100 IN. 926.6200 IN. .0300	YMOP	= .00	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-IB = ELEVON = FHI =	e.000 .000 5.000 .000	92TAC = ELV-09 = MACH = DX = EETAO =	.800 3.888 .608 18.880
			RN/L =	3.30	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	6.000										
	02	ECN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	24449	.60199	00995	.00007	00098	00099	34281	03903	08097	~.00079
	3.080	32022	.60227	80294	.00010	00067	00074	31870	03121	08074	00067
	7.500	29105	.00255	00152	-00047	00056	00062	28972	02789	00062	00055
	15.000	24550	.08911	.00319	.00645	08042	08041	24865	02201	00046	00037
	30.000	10559	.00540	.00809	.00035	00043	.08891	16523	01404	00034	.00055
	45.000	11115	.00559	.01950	.00216	.00113	.00152	11112	00507	.00128	.00140
	60.000	.00621	.08241	.05232	.00970	.00720	.00120	.00592	.00305	.80729	.00544
	GRADIENT	.0070 <b>7</b>	.00007	.08024	.00006	.00804	.00003	.00703	.00081	.00005	.00003
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	19.000										
ALPHAO .	19.000 02	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLLN
ALPHAO =		8CN 33719	OCA .01921	DCLH .02497	DCY 00143	DCBL +.08076	DCYN 00089	DCL 33541	DCD 03953	00SL 00023	00LN 00055
ALPHAO =	OZ		-								
ALPHAO =	02 .000	33719	.01921	.02497	00143	00076	00089	33541	03953	00023	00055
ALPHAO •	0Z .000 S.000 7.500 15.000	33719 31410 26401 23935	.01921 .01744 .01577 .01426	.02497 .02031	00143 00150	00076 00049	00089 08866	33541 31236	03953 03737	00023 00030	00055 00057
ALPHAO •	0Z .000 \$.000 7.500	33719 31410 28401	.01921 .01744 .01577	.02497 .02031 .01690	00143 00150 00146	08076 08849 08845	00089 00066 00045	33541 31236 28243	03963 03737 03379	00023 00030 00053	00055 00057 00037
ALPHAO •	0Z .000 S.000 7.500 15.000	33719 31410 26401 23935	.01921 .01744 .01577 .01426	.02497 .02031 .01690 .01446	00143 00150 00146 00111	08076 08849 08045 08039	00089 00066 00045 00018	33541 31236 28243 23820	03963 03737 03379 02752	00023 00030 00033 00041	00055 00057 00037 00011
ALPHAO =	02 .000 5.000 7.500 15.000 20.000 45.000 60.000	33719 31410 26401 23935 17379 13192 09558	.01921 .01744 .01577 .01426 .01205 .01112	.02497 .02031 .01690 .01446 .01176	00143 00150 00146 00111 00057	00076 00049 00045 00039 0008	00089 00086 00045 00018	33541 31236 28243 23820 17324	03963 03737 03379 02752 01831	00023 00030 00053 00041 00001	00055 00057 00037 00011
ALPHAO =	02 .000 5.000 7.500 15.000 30.000	33719 31410 26401 23935 17379 13192	.01921 .01744 .01577 .01426 .01205 .01112	.02497 .02031 .01690 .01446 .01176	00143 00150 00146 00111 00057	00045 00045 00039 0008	00089 00056 0005 00018 .00035	33541 31236 28243 23820 17324 13185	03963 03737 03379 02752 01831 01195	00029 00030 00033 00041 00009	00055 00057 00057 00011 .00055
ALPHAD =	02 .000 5.000 7.500 15.000 20.000 45.000 60.000	33719 31410 26401 23935 17379 13192 09558	.01921 .01744 .01577 .01426 .01205 .01112	.02497 .02031 .01690 .01446 .01176 .01134 .01204	00143 00150 00146 00111 00057 .00008	08076 0849 00045 00039 0008 00015 00015	00089 00066 00045 00018 .00035 .00033	33541 31236 28243 23220 17324 13:65 09595	03963 03737 03379 02752 01831 01195 08625	00029 00030 00033 00041 00001 00009	00055 00057 00057 00011 .00055 .00055
ALPHAO =	02 .000 5.000 7.500 15.000 20.000 45.000 60.000	33719 31410 26401 23935 17379 13192 09558	.01921 .01744 .01577 .01426 .01205 .01112 .01051	.02497 .02031 .01690 .01446 .01176 .01134 .01204	00143 00150 00146 00111 00057 00008 00014	08076 0849 00045 00039 0008 00015 00015	00089 00066 00045 00018 .00035 .00033 .00003	33541 31236 28243 23220 17324 13:65 09595	03963 03737 03379 02752 01831 01195 08625	00029 00030 00033 00041 00001 00009	00055 00057 00057 00011 .00055 .00055
	02 .000 \$.000 7.500 15.000 90.000 45.000 60.000 GRADIENT	33719 31410 26401 23935 17379 13192 09558	.01921 .01744 .01577 .01426 .01205 .01112 .01051	.02497 .02031 .01690 .01446 .01176 .01134 .01204	00143 00150 00146 00111 00057 00008 00014	08076 0849 00045 00039 0008 00015 00015	00089 00066 00045 00018 .00035 .00033 .00003	33541 31236 28243 23220 17324 13:65 09595	03963 03737 03379 02752 01831 01195 08625	00029 00030 00033 00041 00001 00009	00055 00057 00057 00011 .00055 .00055
	02 .000 5.000 7.500 15.000 90.000 45.000 60.000 GRADIENT	33719 31418 26401 23935 17379 13192 09559 .00705	.01921 .01744 .01577 .01426 .01205 .01112 .01051 00045	.02497 .02031 .01690 .01446 .01176 .01134 .01204 00105	00143 00150 00146 00111 00057 .00008 .00014 00080	08076 00849 00045 00039 00018 00015 00004	00089 00086 00046 00018 .00035 .00033 .00005	33541 31236 28243 23820 17324 13:85 09595 .00703	03963 03737 03379 02762 01831 01195 00625	00088 00080 00083 00041 00001 00009 00001 .00008	00055 00057 00037 00031 .00035 .00035 .00085
	02 .000 5.000 7.500 15.000 90.000 60.000 GRADIENT	33719 31418 26401 23935 17379 13192 09559 .00705	.01921 .01744 .01577 .01426 .01205 .01112 .01051 09045	.02497 .02031 .01690 .01446 .01176 .01134 .01204 00105	00143 00150 00146 00111 00057 .00008 .00014 00000	08076 09849 09045 09039 0908 09015 0905 0904	00089 00086 00018 .00035 .00033 .00085	33541 31236 28243 23820 17324 13:85 09595 .00703	03963 03737 03379 02762 01831 01195 00625 .00078	00088 00080 00083 00041 00009 00001 .00008	00055 00057 00037 00011 .00035 .00035 .00085 .00084
	0Z .000 5.000 7.500 15.000 30.000 45.000 60.000 GRADIENT 14.000 OZ	33719 31418 26401 23935 17379 13192 09559 .00708	.01921 .01744 .01577 .01426 .01205 .01112 .01051 00045 RN/L =	.02497 .02031 .01690 .01446 .01176 .01134 .01204 00105 3.23	00143 00150 00146 00111 00057 .00008 .00014 00000 GRADIENT INTI	08076 09849 09045 09039 09015 09015 0904 ERVAL -	00089 00086 00095 00018 .00033 .00083 .00085	33541 31236 28243 23220 17324 13:65 09595 .00703	03963 03737 03379 02752 01831 01195 00625 00078	00028 00050 00053 00041 00009 00001 .00005	00055 00057 00037 00035 .00035 .00085 .00085 .00084

15.000

30.000

45.000

60.000

GRADIENT

-,22298

-.16093

-.12327

-.10316

.00705

.08474

.00232

.00314

.00324

-.080B1

.02822

.02164

.01676

.01215

-.00228

\*---

-.00492

-.00428

-.00448

-.00322

-.00807

.00053

.00132

.00218

.00210

.00009

.00130

.00205

.00229

.00274

.00005

-.21750

-.15574

-.12037

-.10099

.00703

-.04935

-.03518

-.02577

-.0218t

.00092

.00093

.00177

.00267

.60270

.00011

.00111

.00167

.00170

.00215



# TABULATED SOURCE DATA - CA20

PAGE 839

CA20	(747/1	01 511	- (0) SII	0/5 (057	- 0101
------	--------	--------	-----------	----------	--------

(VGN057) ( 11 MAR 75 )

	REFEREN	NCE DATA							PARAMETRIC	DATA	
LREF -	690.0000 50 474.8160 11 936.6860 11	N. YMRP	00	80 IN.XO 80 IN.YO 80 IN.ZO				ALPHAC = ELV-IB = ELEVON = PHI = OY =	8.000 .000 5.000 .000	EETAC = ELV-CB = MACH = DX = BETAO =	000. 000.E 000.0S 000.0S
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.08				
ALPHAO =	6.000										
ALFRAD -	DZ	DCN	DCA	DCLH	DCY	DCEL	DCYN	<b>ECL</b>	DCD	DCSL	DCLN
	.000	33415	00139	02279	.00018	60091	00133	33210	03531	00095	00124
	3.000	31410	00115	01925	.00028	00067	00108	31226	03398	00078	00101
	7.500	28816	00056	01559	.00053	00059	00078	28652	03057	00065	00072
	15.000	25263	.00075	00907	.60109	00842	08946	25173	02566	00047	08042
	30.000	19072	.00293	.00840	.00151	00012	00801	18539	01703	00012	.00000
	45.000	+.13303	.00643	.01335	.00013	00016	.00075	13299	00751	00008	.00076
	69.000	12038	.01729	.04091	01307	00535	.00598	12153	.00460	00470	.00649
	GRADIENT	.00610	.38011	.08895	.00008	E0000.	.00007	.00808	.00075	.00004	.00007
			RN/L =	3.27	GRADIENT INT	ERVAL =	.80/ 12.00				
ALPHAO =	10.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	OCD	DCSL	DCLN
	.003	33699	.01755	.00544	00117	00075	00130	33491	84123	00097	00115
	3.000	31460	.01619	.00328	00132	00044	00090	31263	03869	00059	000Bi
	7.500	28539	.01449	.00228	08052	00035	00079	28357	03529	00049	00071
	15,000	24681	.01399	.00355	00072	00032	00049	24529	02984	00040	08843
	30.000	17941	.01116	.00327	.00065	.00001	.08084	17862	02016	.00002	.00003
	45.000	14107	.01138	.00935	.00083	00022	.00002	14090	01329	00022	.00005
	60.000	11501	.01317	.01327	00072	00108	.00131	11555	00703	00084	.00148
	GRADIENT	.00685	00041	00053	.00009	.00005	.00008	.00582	.00979	.00006	.00005
			RN/L =	3.29	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	DCN	DCA	DCLH	DCY	OCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	33133	.01188	.03014	00265	00035	00036	32436	06963	00042	00026
	3.000	30816	.00942	.02376	00282	08013	00038	30128	06541	00015	00005
	7.500	27730	.60632	.01742	00312	.00021	.08039	27059	06095	.00030	.00022
	15.000	24042	.00475	.01873	00301	.00060	.00067	23442	05355	.00075	.08050
	30.000	17859	.00197	.01650	00251	00013	.00151	17376	04130	.00024	.00149
	45.000	13872	.00231	.01450	00395	.00131	.00226	13516	03131	.00162	.00168
	60.000	11222	0085t	.00923	00353	.00225	.00315	10876	02765	.00294	.00251
	GRADIENT	.00718	00074	00167	00806	.00007	.00010	.00714	.00102	.00010	.000CB

GRADIENT

.00014

.08013

-.00139

.00031

.00048

-.00025

.00017

-.00009

.00040

-.00035

PAGE 840

UAGU	(/4//]	AL 211	- (0)	211	0/5	(628 – 81	U)

(VGN858) ( 11 MAR 75 )

				United 1717		.0. 3., 0,	2 1030 - 0101	,	( VORU:	אוני יוסא	AR 75 1
	REFER	ENCE DATA							PARAMETRIC	DATA	
SREF -	2690.0000	SQ.FT. XM	रु <b>=</b> 11	09.0000 IN.	.xo			MUPHAC =	4.000	BETAC =	.000
LREF =	474.8100	IN. YM	Sb ¤	.6000 IN.	.YO			ELV-IB =	.000	ELV-08 .	3.800
eref =	936.6900	IN. ZH	₹P = 3	75.0000 IN.	.Z0			ELEVON =	5.000	MACH =	.600
SCALE =	.0300							PHI =	.000	DX =	.000
		***						DY =	10.000	= CATES	.000
			RN	/L = 3.54	GRADIEN1	INTERVAL =	.00/ 12.00				
ALFHAO =	10.000										
	ΩZ	DCN	DCA	DCL	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	13660	.005	4 <b>0</b> .050	100. 201	18980759	80307	13546	01840	00800	00171
	3.000	12816	.003	99. 86	99 .001	00500	00292	12485	01648	08642	00103
	7.500	11680	.003	25 .038	1 <b>7</b> .000	3500502	00223	11559	01708	00533	00132
	15.680	09391	.001	<b>953. 9</b> 3	52000	3800357	00124	09859	01569	80373	000060
	30.000	07654	.001	53 .028	88 .000	2200209	.00028	07606	01176	00201	.08954
	45.000	08036	.001	12 .016	91 .001	14800152	.00080	05964	06939	00136	.00105
	60.000	04475	.000	110. EE	94 .005	7300101	.00094	04424	08891	00064	.00110
	GRADIENT	.00260	000	₹7 <b>-</b> .001	79000	25 .00033	\$1000.	.00280	.00019	.00035	.00006
			RN.	/L = 3.24	GRADIENT	INTERVAL =	.00/ 12.00				
ALPHAO =	14.880										
	ÐZ	DCN	DCA	DCLH	DCY	OCEL	DCYN	DCL	DCD	DCSL	DCLN
	.000	09448	.005	8 .851	61009	3400376	.90254	09300	01754	00303	.00338
	3.000	09465	.0043	32 .646	41 <b></b> 008	18900159	.00139	09289	01870	00120	.00173
	7.500	09348	.0043	69 .Gº1	09006	9560007	.00052	09176	01835	.00008	.00051
	15.000	08700	.005	25 .033	84005	80000 25	.00065	08568	01595	.00008	.00055
	30.000	072-3	.0070	16 .025	39002	00018	.00110	07199	01069	.00012	.00111
	45.000	05555	.0069	810. #	63000	08814	.00129	05945	00778	.00018	.0012B
	69.009	05065	.0069	33 .012	94 .001	6808013	.00172	05088	00553	.00029	.00170

•



TABULATED SOURCE DATA - CA20

CA20 (747/1 01 S1) - (01 S1) D/S (059 - 010)

(VGN059) ( 11 HAR 75 )

			<b></b>										
	REFERENCE DATA PARAMETRIC DATA												
LREF -	690.0000 SQ 474.8100 IN 936.6800 IN .0300	. YMRP	.00	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.089 .000 5.000 .000 10.000	BETAC = ELV-0B = MACH = OX = EETAO =	.000 3.000 .600 10.000		
			RN/L =	3.32	GRADIENT II	NTERVAL =	.00/ 12.00				-		
ALPHAO =	10.800 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 15926 14881 13720 11914 68905 07165 05625 .00291	DCA .60516 .00440 .00345 .00195 00009 00029 .00035	DCLM .03540 .02955 .02571 .02115 .01552 .01312 .01203 00139	DCY .00138 .00085 00040 00014 00011 .00108 .00254 00024	00366 00214 00161	OCYN 00345 00325 00223 00166 .00014 .00072 .00105	DCL 15791 14731 13572 11766 08768 07651 05546 .00293	DCD 02159 02150 02042 01977 01556 01272 00942	0CSL 00742 00612 00516 00387 00209 00148 00029	DCLN 00219 00222 00135 00090 .00051 .00059 .00121		
ALPHAG =	14.000 OZ .000 3.000 7.500 15.000 30.000 45.000 GRADIENT	DCN -,13155 -,12394 -,11411 -,10284 -,07930 -,85548 -,05256 ,80231	0CA .60190 00080 00231 00076 .00169 .00210 .00203 00054	0CLH .05023 .04094 .03485 .03187 .02269 .01649 .01240	DCY00623006130062100521005250019900004	008. 00429 00158 .00003 .00149 .00029 .00028	DCYN .00154 .00083 .00102 .00159 .00130 .00170 .0018500806	DCL 12810 12007 11016 09950 07721 05404 05149 .00238	DCD 02893 03076 02955 01813 01390 01074 .00003	DCSL 00379 00134 .00028 .00183 .00060 .00066 .00042	DCLN .00253 .00119 .0018 .00119 .00159 .00160		

-.00069

.06597

GRADIENT

-.00197 -.00071

PAGE 842

CARD	1747/1	01	SI)	_	(01	SII	0/5	(060	-	010)
------	--------	----	-----	---	-----	-----	-----	------	---	------

(VGN050) ( 11 MAR 75 )

	REFERE	NCE DATA			PARAMETRIC DATA						
SREF = 2	2690.0800 S	O.FT. XHRP	= 1109.00	80 IN.XO				ALPHAC =	8.000	BETAC =	.080
LREF =	474.8100 I	N. YMRP	· .00	80 IN.YO				ELV-18 =	.000	ELV-09 =	3.000
eref =	936.6800 I	N. ZMRP	o 375.00	80 IN.ZO				ELEVON =	5.000	MACH =	.600
SCALE =	.0300							PHI =	.000	DX =	.000
								DY =	10.000	BETAD =	.008
			FM/L =	3.23	GRADIENT IN	TERVAL -	.00/ 12.00				
ALFHAO =	10.000							•			
	DZ	DÇN	DCA	DCLM	DCY	DCBL.	DCYN	OCL	DCD	DCSL	DCLN
	.000	28732	.01122	.03951	.08846	00989	00510	28490	03864	01063	00331
	3.000	26527	.01644	.03513	.00511	00848	00460	26386	03579	00915	00305
	7.500	E4187	.01015	.03350	.00277	00718	00412	23995	0320t	80779	00281
	15.600	20397	.00221	.02892	.08027	00557	00293	- 20230	02733	00600	00192
	30.670	14995	.00605	.02240	.00055	00378	00105	14873	02008	00391	00039
	45.000	11783	.00549	.01897	.00091	00222	00002	11699	01506	00278	.08847
	<b>60.000</b>	09505	.00519	.01679	.00152	00210	.00076	08763	01018	00154	.00112
	GRADIENT	.00599	60014	00054	00074	.00036	.60013	.00593	.00090	.00037	acco.
			RN/L =	3.20	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	14.080										
	OZ	DC11	DCA	DCLM	DCY	OCBL.	DCYN	DCL	DCD	DCSL	DCLN
	.000	26966	.00951	.06968	.09305	00979	00189	25512	05381	00995	.00054
	3.000	24000	.00594	.05269	.00548	00720	00164	23455	05133	00738	.00016
	7.500	21614	.08425	.04563	00230	00540	00102	21075	04817	00549	.00031
	15.080	18632	.00406	.04216	00416	00285	.00011	18206	04120	00274	.00079
	30.000	13741	.00259	.03105	08484	.00015	.00165	13398	03064	.08059	.60176
	45.000	10437	.00237	.02361	00379	.00154	.00243	10184	02295	.08208	.00199
	69.000	08256	.00254	.01866	00083	.00179	.00271	08072	01751	.00239	.00220

.00057

.00012

.00587

.00075

.00058

-.08003

TABULATED SOURCE DATA - CARD

CA20 (747/1 01 SI) - (01 SI) D/S (861 - 010)

PAGE 843

(VGN0B1) ( 11 MAR 75 )

	REFERE	NCE DATA						!	PARAMETRIC	DATA	
LREF -	690.0080 S 474.8100 II 936.6800 II	N. YMRP	00	00 !N.XO 00 !N.YO 00 IN.ZO				ALPHAC = ELEVON = PHI = DY =	8.080 .000 5.000 .080	BETAC = ELV~OB = MACH = DX = BETAO =	.000 3.000 .600 10.000
			RN/L =	3.28	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	OZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	31102	.01289	.02020	.00671	00971	00475	30854	04131	00940	00316
	3.000	29245	.01209	.01893	.00433	00765	00450	29011	03889	00831	00310
	7.500	26749	.01657	.01785	.00215	00658	00413	26528	03594	00720	00292
	15.000	22724	.00817	.01562	.80010	00512	00283	22521	03141	00553	00189
	30.600	17199	.00627	.01573	.00068	00353	00102	17046	02369	00365	00039
	45.000	13862	.60554	.01557	.00167	00301	00027	13748	01861	00301	.00026
	60.000	11256	.00550	.01703	.00315	00282	.00021	11181	01413	00274	.00070
	GRADIENT	.00578	00030	00031	00060	.00023	.00008	.00575	.00071	.00029	.00003
			RN/L =	3.26	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	OŻ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCFN
	.000	28090	.00589	.04146	.00580	01009	08442	27398	06225	01086	00185
	3.000	26192	.00405	.03693	.00597	00819	00433	~.25512	05943	00899	00222
	7.580	23708	.00134	.03282	.00098	00703	00247	23036	05605	00742	00069
	15.000	20412	00057	.02954	00187	00435	0,0084	19792	04934	00443	.00024
	39.000	15272	00284	.02713	00292	00103	.00164	14769	03893	00051	.00184
	45.000	11203	00460	.01972	00391	.00209	.00293	10759	03156	.00274	.00234
	69.000	09764	08489	.018*1	00093	.00330	.00342	08405	02517	.00403	.00252
	GRADIENT	00592	08081	00113	00079	.00040	.00027	.00579	.00002	.00045	.00017

CA20 (747/1 01 S1) - (01 S1) D/S (062 - 010) (VGN062) ( 11 MAR 75 )

REF	ERE	NCE	DA	TA

# PARAMETRIC DATA

LREF =	690.0000 50.F 474.8100 IN. 925.6800 IN. .0300	YIST	= 1169.0000 = .0000 = 375.0000	IN.YO					000	EETAC = ELV-0B = MACH = DX = BETAO =	-5.000 3.000 .600 .000
			₩YL =	3.22	GRADIENT INTO	ERVAL =	.00/ 12.00				
ALPHAO =	10.089 DZ	DCN	DCA	DCLH	DCY	DCOL	DCYN	DC1.	DCD	DCSL	DCLN
		16743	.01197	.06244	01430	.00594	.00269	1669		.00747	.00243
		14488	.00818	04394	01030	.00480	.00293	1440	-	.00523	.00205
		13012	.60707	.03689	00525	.00355	.00207	1293		.00398	.00141
		10950	.00501	.02739	00174	.00238	.00176	1087	001408	.00265	.00132
	•	08099	.00443	.01893	.00114	.00134	.00137	0905	200970	.00156	.00112
	45.080	06204	.00360	.01239	.00178	.80057	.08074	0517	2 ~.00722	.00069	.00063
	60.000	04	.00259	.00441	.00265	00064	.00017	0484	100450	00060	.00028
	GRADIENT	.00464	00062 -	.00326	.00120	00842	+.00021	.0048	7 .00023	00845	00014

### RN/L = 3.23 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	13126	.01929	.07890	01239	.00768	.00286	13203	01303	.00814	.80092
	3.000	11572	.01436	.05650	01123	.00556	.00323	~.11575	01406	.80617	.00179
	7.500	10512	.01145	.04345	00736	.00385	.00245	10477	01432	.00433	.00144
	15.000	69403	.01025	.03470	00314	.00262	.00154	09385	01221	.00292	.00065
	30.000	07691	.01028	.02230	.00003	.00165	.00120	07129	06720	.00198	.00075
	45.000	05938	.00994	.01539	.00027	.00129	.00106	05711	00399	.00151	.00071
	60.000	64631	.00902	.01003	.00118	.00110	.00146	04712	00245	.00142	.00115
	GRADIENT	.09340	00101	00459	-00069	00050	00006	.00354	00016	00050	.00005

# TABULATED SOURCE DATA - CA20

PAGE 845

CA20 (74)	7/1 01	SI) ·	- (01	511	0/5	1053 -	יטוטי
-----------	--------	-------	-------	-----	-----	--------	-------

(VGN063) ( 11 MAR 75 )

PARAMETRIC DATA

~		~~	NCE	20.4	**
MŁ.	P E.	NĽ.	M.C.	· ·	

			XHRP	_	1109.0000	IN YO	ALPHAC	=	4.000	DETAC	=	-5.000
SREF		2690.0000 SQ.FT.	YMRP			IN.YO	£LV-18	-	.000	ELV-09	-	3.000
	-	474.8100 IN.	ZMRP		375.0000		ELEVON	-	5.000	MACH	-	.600
BREF	-	936.6900 IN.	ZERF	-	373.0000		PH!	-	.000	DX	-	10.000
SCALE	=	.0000					DY	-	.000	EETAO.	-	.000

# RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN19480169181513112958094740735805629 .00565	DCA .01429 .01037 .00797 .00720 .00562 .00521 .00525 00082	OCLM .04964 .03011 .02271 .01811 .01137 .00803 .00921	OCY 01551 01168 00719 00375 00113 .00016 .00108	00841 .00841 .00608 .00467 .00316 .00183 .00078 00022	00278 .00351 .00276 .00197 .00167 .00154 .00097 .00081	DCL 19432 16841 15039 18866 09427 07337 05635 .00571	DCD 01975 01917 01843 01541 01092 00764 00460 .00018	DCSL .00899 .00646 .00494 .00340 .00207 .00094 ~.00007	DCLN .00289 .00165 .00113 .00110 .00120 .00082 .00884
----------	--------------------------------------------------------------------------------------------	-----------------------------------------------	------------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------	----------------------------------------------------------------------------	-----------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------------------------	----------------------------------------------------------------------------

# RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00

ALPHAD =	14.080 DZ .000 3.000 7.500 15.000 30.000 45.000 GRADIENT	DCN17689147661280911369082810657905368 .00620	DCA .01692 .01015 .00696 .00693 .00652 .00762 .00768 00129	DCLM .08179 .05286 .03674 .02934 .01821 .01385 .00991	DCY01372012900097400588002430026100083	DCBL .08973 .00782 .00591 .00365 .00308 .00235 .00156	DCYN .00320 .00332 .00269 .00191 .00179 .00152 .00172	DCL 17573 14573 12691 11199 08195 06568 05399 .00632	DCD 02637 02587 02457 02078 01361 00853 00534 .00024	0CSL .01021 .00839 .00639 .00400 .00342 .00264 .00193	DCLN .00075 .00133 .00117 .00097 .00100 .00090 .00129
----------	----------------------------------------------------------------------------------	-----------------------------------------------	------------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------------

PAGE 845

20.000

.000

CARD	(747/1	01	SII	-	(01	S1)	0/5	(054 -	010)
------	--------	----	-----	---	-----	-----	-----	--------	------

(VGN054) ( 11 MAR 75 )

HC.	P &	REN	LE.	DAI	

# ALPHAC = 4.000 EETAC = -5.000 ELV-1B = .000 ELV-0B = 3.000 ELEVON = 5.000 MACH = .600

.000

DX

.000 EETAO =

PH!

DY

PARAMETRIC DATA

SHEP	-	E920.0000	34.1		NI PU	_	1105.0000	MIN
LREF	-	474.8100	IN.	٠	YMRP	=	.0000	IN.YO
PREF		935.6900	IN.		ZMRP		375.0000	IN.ZO
SCALE	=	.0300						

CALLS -	7 70	COADICNE	INTERVAL	_	00/12/00

ALFHAO =	10.000										
	OZ	DC:1	DCA	DCLM	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	.800	16501	.01123	.02227	00524	.00571	00141	1	02177	.008IS	00255
	3.000	17457	.00970	.01644	00463	.00554	00074	17ఎ50	02076	.00532	00169
	7.500	15337	.80743	.00658	00485	.00385	.00046	15233	01932	.00363	00022
	15.000	13573	.00747	.01034	+.00196	.00242	.60653	13497	01621	.00249	.00020
	30.000	10287	.08540	.01015	00002	.00892	.00093	10223	01152	.89197	.00076
	45.000	03064	.08541	80800.	.00147	.00018	.00081	08035	00858	.00032	-00077
	69.880	05773	.00353	.00393	.00264	00057	.00099	05748	00655	00051	.00100
	GRADIENT	.00475	8005!	68181	.00016	0003B	.00025	.00476	.00033	00033	.00031

### FOVIL = 3.30 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.000										
	DZ	DCN	DCA	DCLH	DCY	OCBL	DCYN	DCL	020	DCSL	DCLN
	.000	15953	180001	.02981	00713	.00628	.00005	15499	03781	.00669	00161
	3.000	14643	00049	.0261	00638	.00538	.00037	14391	03638	.00628	00118
	7.500	13646	00081	.02348	00612	.00570	.00105	13226	03361	.00578	00035
	15.000	11671	00084	.01943	00571	.08492	.00203	11304	02905	.00526	.00078
	39.000	08885	.00199	.01659	00390	.00425	.00235	06669	01957	.00469	.00125
	45.000	07118	.00388	.01341	00107	.00223	.00131	07000	01346	.00248	.00073
	60.808	05041	.00604	.01101	.00262	.00015	.00102	06008	00875	.00039	.00095
	GRADIENT	.00304	00010	08882	.00013	00016	.00013	.00300	.08055	00012	.00017

\_

-

TABULATED SOURCE DATA - CA20

PAGE 847

CA20 (747/1 01 S1) - (01 S1) 0/S (055 - 010)

(VGNDES) ( 11 MAR 75 )

	REFER	ENCE DATA						(	PARAMETRIC	DATA	
LREF =	2698.0800 9 474.8100 936.6800 .0308	IN. YMRP	= 1109.0000 = .0000 = 375.0000	IN.YO				ALPHAC = ELV-1B = ELEVON = FHI = DY =	8.000 .000 5.000 .000	SETAC = ELV-08 = MACH = OX = BETAO =	-5.000 3.000 .600 .000
			RN/L =	3.22	GRADIENT INTE	ERVAL -	.00/ 12.00				
ALPHAD =	10.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	32876	.01826	.03995	02030	.80805	00023	32694	03910	.00789	00163
	3.000		.01699	.03468	01470	.00574	.00046	2 <del>9</del> 711	03525	.00574	00054
	7,500		.01557	.03050	00920	.00426	.00079	28642	03117	.00434	+0000.
	15.000		.01310	.02378	00416	.00239	.00102	22130	02572	.00253	.00059
	30.080		.01136	.01889	00078	.00118	.00102	16180	01700	.00134	.00080
	45.000	-	.00931	.01316	.00005	.00033	.00057	12334	01169	.00043	.00850
	60.000		.00909	.00932	.00136	00048	.00082	09029	00670	00033	-00069
	GRADIENT			.00122	.00146	08849	.00013	.00797	.00165	00046	.00021
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00.12.00				
ALPHAO =	14.608										
	DZ	DCM	DCA	DCLH	ĐĊY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	29266	.01484	.07322	02593	.00895	.00342	28756	05540	.00941	.00118
	3.000	25774	.01028	.05285	01956	.00646	.00301	25257	05237	. 00700	.00136
	.7.500	23253	.00263	.04659	01354	.00491	.00271	22771	64788	.00542	.00144
	15.000	19730	.00806	.03971	00921	.00451	.00293	19339	03991	.00508	.00175
	30.000		.00691	.02753	00457	.00359	.00254	13802	02730	.09+20	.00158
	45.600		.00710	.01989	00425	.00319	.00212	10613	01915	.00361	.00129
	60.000		.00699	.01429	00239	.00265	.00255	08319	01353	.00328	.00183
	GRADIENT			.00338	.00162	00051	00009	.00779	.00113	00052	.00003

. ...

TABULATED SOURCE DATA - CAZO DATE 04 DEC 75

PAGE 848

.000

CAPR	(747/1	01	SII	-	(01	S1)	0/5	1058	-	010)
------	--------	----	-----	---	-----	-----	-----	------	---	------

(VGN069) ( 11 MAR 75 )

PARAMETRIC DATA

.000 EETAO =

.0300

SCALE =

#### 8.000 BETAC = ALPHAC = SREF = 2690.0000 SQ.FT. XMRP = 1169.0000 IN.XO .000 ELV-OB = ELV-18 = YHRP - .0000 IN.YO LREF = 474.8100 IN. HACH = .600 ELEVON -5.000 ZMRP - 375.0000 IN.ZO EREF = 938.6800 1N. DX = 10.000 .000

.00/ 12.60

RN/L = 3.24 GRADIENT INTERVAL =

ALPHAO *	10.800 DZ .000 3.000 7.500 15.000	DCN 33987 31240 26436 23659	DCA .01859 .01704 .01591 .01366	DCLM .01896 .01405 .01418 .01046	9CY 02648 01600 01699 00558	DCBL .00982 .00785 .00561 .00328	DCYN 00827 .00060 .00100 .00110 .00099	DCL 33793 31061 28280 23734 17405	DCD 04071 03746 03371 02798 01030	0051 .00563 .00705 .00570 .00540 .00206	0CLN 00179 00063 .00001 .00052 .00064
	30.000 45.000	17459 13234	.01220	.01029	00198	.00192 .00079 00018	.00000 .00000 #3000	13227 10124	01200 00655	.0008	.00045
	60.000 GRADIENT	10089 .00731	.01113 08035	.00976 00057	.00125 .00125	08842	.80004	.00726	SE000.	00038	.00023

#### .00/ 12.00 RN/L . 3.25 GRADIENT INTERVAL .

ALFHAO =	14.080 DZ .000 3.000 7.500 15.000 90.000 45.000 60.000 GRADIENT	DCN32415291902655924428159231200508255	9CA .01589 .01159 .00539 .00702 .00549 .00549	DCLM .05148 .03704 .03289 .02841 .02179 .01652 .01414	0CY 02612 02025 01475 00993 00553 00424 00255 .00149	00827 .00827 .00827 .00870 .00496 .00330 .00247 .00201 00847	00335 .00335 .00280 .00256 .00262 .00240 .00318	DCL 31837 26503 25004 21932 16547 11781 08161 .00762	000 06300 05937 05465 04745 03324 02371 01555 .00108	005L .01077 .00870 .00712 .00543 .00378 .00264 .00272	00LN .00077 .00071 .00025 .00125 .00153 .00159 .00250
----------	--------------------------------------------------------------------------------------------	----------------------------------------	-----------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	-------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------------

The second contract the second contract to

DATE 04 DEC 75

REFERENCE DATA

## TABULATED SOURCE DATA - CARD

PAGE 849

C420	(747/1	Ot	511	-	(01 S1)	D/S (067 - 019)	
------	--------	----	-----	---	---------	-----------------	--

(VGND67) ( 11 MAR 75 )

PARAMETRIC DATA

SREF LREF	=	2690.0000 SQ.FT. 474.8100 IN.	YHRP	•	= =	IN.YO	ALPHAC = ELV-18 =	8.000 .000	BETAC ELV-0B	-	-5.000 3.000
BREF	_	936.6900 IN.	ZHRP	-	375.0000	!N.ZO	ELEVON =	5.000		-	.600
CCALE	-	DDEO					PH1 =	.000	DX		20.000

BREF = SCALE =	935.6900 IN. .0300	ZHRP	- 375.00	00 IN.ZO				PHI =	.000 .000 .000	DX * BETAO =	000.08
			RN/L =	3.28	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 69.000 GRADIENT	OCN 33793 30973 26554 24623 16240 14169 11543 .00654	DCA .01702 .01462 .01476 .01350 .01048 .08986 .01029	0CLM .00136 00600 00842 .00352 .00413 .00727 .01141	DCY 01151 00981 00620 00283 .00010 .00175 .00227	0090 .00526 .00526 .00385 .00237 .00126 .00027 00061	DCYN 00219 00055 00022 .00005 .00054 .00031 .00033	DCL 33575 30658 28376 24464 18145 14125 11546 .00678	DCD 04192 03921 03505 02947 02135 01490 00591 .00092	0051 .00541 .00508 .00375 .00234 .00134 .00032 00034	OCLN 00335 00145 00026 00026 .00031 .00026 .00043 .00021
			RN/L =	3.29	GRADIENT INT	ERVAL =	.00/ 12.00				
alphao =	14.080 DZ .080 3.000 7.500 15.000 30.000 45.600 60.000 GRADIENT	DCN 31924 30052 27298 23656 17557 13085 08605 .00616	DCA .01125 .00997 .00805 .00559 .00189 .00184 00124	DCLM .02123 .01803 .01506 .01700 .01719 .01563 .01510	01183 00917 00615 00332 00270 00238	DCBL .00732 .00599 .00443 .00353 .00170 .00147 .00247	DCYN 00055 .00031 .00114 .00139 .00175 .00243 .00404 .00023	0CL 31240 29399 26692 23089 17081 12726 09319 .00508	000 06532 06313 05923 05181 04064 03046 02202	DCSL .00594 .00598 .00458 .00376 .00207 .00202 .00357	DCLN 00241 00114 .00003 .0009 .00109 .00302 .00302

GRADIENT

.00054

-.00074

-.00263

.00055

-.00010

-.08018

.00109

-.00849

-.00014

-.08015

CA20 (747/1 01 SI) - (01 SI) D/S (	0000 - 0101	
------------------------------------	-------------	--

(VGN059) ( 11 MAR 75 )

			CALO	(14/71	01 311 - 1	01 317 0/5	, (005 - 010)	l	TVGNU	יפי נון ת	AN 75 )		
	REFER	ENCE DATA							PARAMETRIC DATA				
SREF = 2	2890.0000 9	SOLFT, XHRP	a 1169.0	800 IN.XO				ALPHAC =	4.000	EETAC -	-5.000		
LREF =	474.8100	IN. YMRP	0:	000 IN.YO				ELV-IB .	.000	ELV-09 =	3.000		
BREF =	936.6800 1	IN. ZMRP	<b>=</b> 375.0	000 IN.ZO				ELEVON =	5.000	MACH =	.600		
SCALE =	.0300							PHI =	.800	DX =	.600		
								DY -	10.000	BETAO -	.000		
								_			1000		
			RN/L =	3.29	GRADIENT	INTERVAL =	.00/ 12.00						
ALPHAO =	10.000												
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN		
	.000	13518	.00651	.64398	0851	ce100 e	00112	13426	01707	08177	00083		
	3.000	12576	.80492	.03569	0655	000159	00064	12471	01700	00169	00035		
	7.500	11571	.60348	.03134	0641	5 <b>00157</b>	08841	11466	01667	00162	00013		
	15.000	10130	.80231	.02728	0025	85100 6	.00018	10025	01483	00123	.00040		
	30.000	07731	.00202	.02153	.0006	500088	.00092	07648	01144	00071	.00105		
	45.000	06055	-00115	.01634	.0814	300085	.00121	06013	00544	00082	.80134		
	60.000	64259	00022	.01071	.0026	300065	.00135	04190	00761	00061	.00149		
	GRADIENT	.00257	00040	00163	.00019	5 .00000	.00009	.00260	.00005	.80002	.00009		
			RN/L =	3.22	GRADIENT	INTERVAL =	.00/ 12.00						
ALPHAO =	14.000												
	OZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	OCL	DCD	DOSL	DCLN		
	-008	09713	.01155	.05265	01424	.00214	.00220	69784	01229	.00275	.00220		
	3.000	08886	.00714	.03739	01289	.00195	.00219	08754	01457	.00243	.00165		
	7.500	08940	.00573	.03166	0100	.60142	.00142	08813	01697	.00172	.00103		
	15.000	08944	.006 <del>95</del>	.03190	00549	.00075	15100.	08846	01469	.00103	.00059		
	30.000	07331	.00728	.02444	00211	.00027	.00139	07290	01067	.00060	.00128		
	45.000	05977	.00703	.01795	.00018	.00017	.00160	05969	00764	.00055	.00:52		
	60.000	05080	.00705	.01272	.0022	80000.	.00168	05059	00545	.00053	.00100		

ORIGINAL PAGE IS OF POOR QUALITY

-.00073

.00282

GRADIENT

-.00274

PAGE 851

CA20	(747/)	01	S11	-	(01	SII	0/5	(069	- 0101
------	--------	----	-----	---	-----	-----	-----	------	--------

(VGN059) ( 11 MAR 75 )

	REFEREN	CE DATA					PARAMETRIC DATA					
LREF =	690.0000 SQ 474.8100 IN 936.6800 IN	. YMRP	00	00 IN.XO 00 IN.YO 00.KI 00				ALPHAC = ELV-18 = ELEVON = PHI = DY =	4.000 .000 5.000 .000 10.000	BETAC = ELV-09 = MACH = DX = BETAO =	-5.000 3.000 .600 10.000	
			RN/L =	3.25	GRADIENT IN	ITERVAL =	.00/ 12.00					
ALPHAO =	10.000											
MULTING -	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN	
	.000	16267	.00694	.03320	00542	.08001	00120	16139	02151	00020	00118	
	3.000	14692	.00389	.02229	00581	08039	00086	14536	02168	00050	0005B	
	7.500	13828	.00337	.02233	00469	00077	00054	13677	02069	00C85	00040	
	15.000	11653	.00046	.01642	00282	00087	.00006	11484	01978	00085	.00021	
	30.000	09150	00048	.01534	00009	00075	.00084	08003	01635	00059	.00096	
	45.000	07351	00069	.01335	.00140	00093	.00109	07228	01345	00063	.00122	
	69.000	05369	00143	.01084	.00182	00971	.00108	05263	01073	00052	-00118	
	GRADIENT	.00315	00044	00133	.00019	00010	.00008	.00317	.00012	00009	.00010	
			RN/L =	3.25	GRADIENT IN	ITERVAL =	.00/ 12.00					
ALPHAO =	14.080								202	DCS1_	DCLN	
	ĐŽ	DCN	DCA	DCLH	OCY	DCBT	DCYN	DCL	DCD	.00394	.00655	
	.000	13225	.80448	.04870	00974	.00369	.00149	12941	02765	.80436	.00055	
	3.000	11589	00048	.03119	01165	.00368	.00244	11233	02850 02793	.00425	.00139	
	7.500	11015	00132	.02701	00999	.00363	.00232	10656		85500.	.00135	
	15.000	10291	.00052	.02736	00643	.00296	.00201	09998	02439	.00325	.00124	
	30.000	08053	.00149	.02007	00177	.00105	.00173	07850	01804	.00194	.00148	
	45.000	06530	.00232	.01605	.00655	.00082	.00169	06392	01354 01071	.00859	.00170	
	60.000	05488	.00264	.01241	.00283	.00016	.00180	05389	01071	.0000	00171	

-.00000

-.00001

.00010

.00291

-.00002

.00001

15.000

30.000

45.089

69.000

GRADIENT

-.18532

-.13845

-.10521

-.08465

.00352

## TABULATED SOURCE DATA - CA20

.00359

.00327

.00319

.00318

-.08016

PAGE 652

.00118

.00178

.00203

.00205

.08010

CA20 (747/1 01	SI)	-	(81	511	0/5	1970	-	010)
----------------	-----	---	-----	-----	-----	------	---	------

(VGN070) ( 11 MAR 75 )

PARAMETRIC DATA

-.64135

-.03032

-.02260

-.01739

.00072

-.18069

-.13513

-.10393

-.02290

.00355

-.00039

.00171

.00243

.00255

.00011

	REFERENCI	E DATA						,	**		
LREF =	690.0000 <b>50.</b> 474.8100 IN. 936.6800 IN. .0300	FT. XMRP YMRP ZMRP		07.NI 00 07.NI 00 07.NI 00				ALFHAC = ELEVON = PHI = DY =	000.8 000. 000. 000.	BETAC = ELV-DB = MACH = DX = BETAO =	-5.600 3.600 .600 .000
			RN/L =	3.28	GRADIENT INT	ERVAL =	.00/ 12.00				
ALFHAO ≈	10.000 02 .000 3.000 7.500 15.450 30.000 95.000 60.000 GRADIENT	DCN 28733 26913 24911 20590 15401 11779 09372 .00559	0CA .01325 .01270 .01165 .00931 .00740 .00504 .00314 00023	DCLM .03337 .03167 .03091 .02605 .02359 .01718 .01240 00021	DCY00353003960033300289001060024100804 GRADIENT INT	DCBL 60290 60333 60340 00310 00247 00199 00172 00806	DCYN 00398 00354 00318 00185 00019 .00019 .00011	DCL 28528 26528 24341 20439 15225 11697 02289 .00554	000 03578 03405 03108 02659 01546 01549 01145	005L 00354 00391 00389 00387 00280 00193 00155 00004	0012 00301 00301 00248 0029 00001 .00053 .00115
ALPHAO =	14.000 9Z ,000 3.000 7.500	BCN 2+127 22832 21353	DCA .60631 .80549 .00508	DCLM .04350 .03993 .03981	- · <del>-</del>	008L 00204 00152 00135	0CYN 00072 60037 .60022	DCL 23563 22587 20876	0CD 06225 04931 04631	00155 00126	DCLN 00021 .00001 .00054 .00112

-.09790

-.00520

-.00300

-.00025

-.00002

.03579

.03029

.02387

.01765

-.00046

.00099

.00214

.00256

.00261

.00013

-.00065

.00123

.00187

.00198

TABULATED SOURCE DATA - CA28

the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

PAGE 853

CYSD	(747/1	61	51)	-	101	SU	0/5	(071	-	0103
------	--------	----	-----	---	-----	----	-----	------	---	------

(VGN071) ( 11 MAR 75 )

	REFEREN	CE DATA						1	PARAMETRIC	DATA	
LREF =	690.0000 SQ 474.8100 IN 936.6800 IN .0300	, YHRP		10 IN.XO 10 IN.YO 10 IN.ZO				ALPHAC = ELV-18 = ELEVON = PH1 = DY =	8.000 .000 5.000 .000 10.000	BETAC = ELV-09 = MACH = DX = BETAD =	-5.000 3.000 .600 10.000
			RN/L =	3.25	GRADIENT INTE	ERVAL -	.09/ 12.00				
ALPHAO ≈	10.000 DZ .800 3.800 7.500 15.000 30.080 45.000 60.000 GRADIENT	DCN 31417 29466 26896 23151 17575 13568 10341 .00602	DCA .01388 .01252 .01026 .00940 .00691 .00473 .00371 ~.00040	DCLH .01390 .01391 .01392 .01605 .01616 .01345 .01386 .00001	DCY 08419 00406 00356 00264 .00029 .00354 .00009 GRADIENT INT	DCBL 00115 00154 00176 00183 00189 00199 00009	DCYN 00325 00309 00265 00159 00052 00812 .00009	OCL 31181 29235 26568 22962 17428 13444 10248 .00600	DCD 04088 03589 03599 02371 01690 01431 .00065	DCSL 00169 00205 00219 00237 00195 00179 00189 00006	9CLN 00360 00278 00231 00119 00018 .00019 .00081
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000	9CN 27456 25573 23529 20673 15444 11671 08930	OCA .60403 .60167 .08065 .00041 00165 00177 00233	OCLM .02804 .02352 .02391 .02662 .02169 .01769	DCY00736007490054200593003130005400013	DCBL 00158 00174 00187 00137 .00051 .00237 .00326	DCYN 00160 00124 00069 .00048 .00213 .00287 .00322	DCL2673924659284620059146401128106512	DCD 06251 06005 05629 04962 03917 02935 02362 .00083	DCSL 00193 00199 00208 00101 .00101 .00299 .00354 00002	DCLN 00117 00078 00019 .00080 .00195 .00222 .00233 .00013

.00013 -.00005

-.00050

-.00844

.00518

GRADIENT

PAGE BUY TABULATED SOURCE DATA - CA20 DATE 64 DEC 75

ON 12 0 7 0 0 0										2) [ 11 MAF	25 1
			CYSO	(747/1 0	1 511 - 101	S1) 0/S	(072 - 010)		(VGND7	2) [ ]] MAF	( 15 )
	045505110	F 61.4						1	PARAMETRIC	DATA	
LREF. =	REFERENC 690.0000 SQ. 474.8100 IN. 935.6800 IN. .0300	FT. XHRP YMRP	.000	19 [N.XO 10 [N.YO 10 [N.ZO				ALFHAC = ELV-18 = ELEVON = PHI = DY =	4.000 .000 5.000 .000	EETAC = ELV-CB = HACH = DX = EETAO =	5.000 3.000 .600 .000
			RN/L =	3.28	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 15021 13469 11919 10280 07175 05373 03773 . 08408	DCA .00522 .00469 .00309 .00316 .00113 .00122 .00195	DCLM .05918 .05293 .04292 .03595 .02416 .01814 .01360	.00142	DCBL 01327 01011 00809 00580 00310 00200 00097	DCYN 00549 00529 00360 00211 00014 .00059 .00103	DCL 14901 13334 11791 10100 07085 05313 03748 .00409	DCD 81995 +.01935 01765 01460 01135 00813 00873	DCSL 01419 01087 00859 00578 00307 00187 00078	00LN 00409 00345 00214 00112 .00040 .00093 .00118
			RN/I. =	3.22	GRADIENT IN	TERVAL =	.09/ 12.00				
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000	9CN11058105430954708538067640565904889	0CA .00677 .00485 .00489 .00494 .00765 .00848 .00981	DCLM .07449 .06412 .05217 .03994 .02636 .01951	00769 00654 06579 00349 00157	OCEL 01124 00742 00328 00123 00055 00028 00016	DCYN 00024 00073 00020 .00071 .00079 .00118 .00152	DCL 10894 10347 09658 08404 06769 05705 04962 .00164	020 - 02019 - 08020 - 62210 - 62210 - 62200 - 6200 - 60000 -	00114 00034 .00002 .00001	DCLN .00249 .00109 .00059 .00050 .00122 .00151

-.0003:

.00161

GRADIENT

TABULATED SOURCE DATA - CA20

PAGE 855

			CA20	(747/1 (	)1 SI) - (O	I SL) 0/S	(073 - 010		(VGN07)	3) ( Q5 SE	75 }
	REFERENC	E DATA	•						PARAMETRIC	DATA	
LREF =	690.0000 5 <b>0.</b> 474.8100 IN. 936.6800 IN. .0300	FT. XMRP YMRP	= 1109.000 = .000 = 375.000	0 IN.YO 0 IN.ZO	GRADIENT IN	TERVAL =	.00/ 12.00	ALPHAC = ELV-18 * ELEVON * PHI = DY =	4.000 .000 5.000 .000 10.000	ELV-09 = HACH = DX = EETAD =	5.000 3.000 .600 10.000 .000
ALPHAO =	10.000 DZ 400 3.000 7.500 15.000 30.000 45.000 69.000 GRADIENT	DCN -,14740 -,13241 -,11687 -,09349 -,06111 -,03985 -,01422 ,00402	00A .00625 .00420 .00369 .00366 .00193 .00190 .00080	DCLM .05549 .04328 .03553 .02744 .02034 .01524 .00779 00259	DCY .00217 .00195 .00082 .00062 .00062 .00142 .00183	DCBL 01322 01025 00793 00527 00298 00202 00118 .00069	CCYN0053600443003110019600023 .00074 .00169	DCL 14624 13113 11573 09260 06052 03939 01411 .00402	DCD 01944 01886 01666 01322 00871 00502 00187 .00038	DCSL 01395 01065 00835 00593 00298 00166 00087	OCLN 00299 00259 00169 00102 .00029 .00108 .00187
ALPHAO =	14.000 OZ .000 3.000 7.500 15.000 30.000 45.000	DCN 14928 14109 12633 10497 07652 06528 05307	DCA .0035800019002040030300212 .000460001800072	3.25 DCLM .05965 .05939 .04637 .03493 .02231 .01859 .01352	DCY00471004510049900288 .00068	DCBL01032005650035300057000140002000099	DCYN0007400033 .00089 .00137 .00166 .00148 .00170	DCL 14571 13685 12208 10112 07383 06345 05145	01301	00346 00025 00085 .00023	DCLN .00177 .00134 .00116 .00148 .00150 .00147 .00170

.00003

-.00309

.09308

GRADIENT

-.00072

60.000

GRADIENT

-.08220

.08805

.00041

-.08848

.01809

-.00323

-.00074

~.00085

.00189

.00112

-.07586

.00599

.00840

-.01549

.00100

.00250

.00118

.00220

.00012

PAGE 855

CAED	1747/1 01 513 - (01 S2)	0/5 (074 - 010)	(VGN074)	( 11 MAR 75

	REFER	ENCE DATA							PARAMETRIC	DATA	
SREF = LREF = BREF = SCALE =	2690.0080 474.9180 935.6800 .0300	IN. YH	0. <del>-</del> 98	800 IN.XO 800 IN.YO 800 IN.ZO				ALPHAC = ELV-1B = ELEVON = PH1 =	9.000 .000 5.000	BETAC = ELV-OB = MACH =	5.000 3.000 .600
			RN/L =	3.27	GRADIENT I	NTERVAL =	.00/ 12.00	DY =	10.000	BETAO *	.000
ALPHAO =	10.000										
ALI INO -	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	. 688	26992	.01156	.05316	.00594		08831	28554	03978	01570	03550
	3.000	28309	.01077	.04540	.00589	01259	00690	26688	03612	01357	08451
	7,500	24499	.00942	.03918	.09367	01021	00550	23697	03257	01102	00365
	15.000	20218	.00767	.03188	.00187	00737	00394	20044	02755	00794	00260
	30.000	14922	.00584	.02486	.00064	00462	00154	14797	02016	00481	~.00071
	45.000	11603	.00383	.91695	.00120	00318	06044	1:493	01638	00321	.00012
	69.008	08304	.00157	.01301	.00216	00165	.00847	08206	01287	00174	.00078
	GRADIENT	.00839	00029	00183	00044	.0000	.00037	.00633	.00082	.00074	.00024
			RN/L =	3.22	GRADIENT . 1	NTERVAL =	.00/ 12.60				
ALPHAO =	14.009										
	DZ	DCN	DCA	DCLM	ĐĈY	DCAL	DCYN	DCL	DCD	DCSL	DCLN
	.000	26951	.00950	.08847	.00406	01692	00510	26380	05598	01765	00085
	3.000	24937	.00740	.08690	.00237	+.01224	86383	- 24375	05315	01280	00075
	7.500	22365	.08584	.05579	00075	00837	00207	21661	04849	00862	.00002
	15.000	19328	.00370	.04544	00330	00458	00031	18453	04220	00452	.00091
	33.000	13577	.00187	.03284	00452	00057	.00170	13316	03128	00015	.00178
	45.000	10571	.00201	.02577	00336	.00125	.00234	10306	02362	.00178	.00197

OF POOR PAGE TO

CA20 (747/1 01 SI) - (01 SI) 0/S (075 - 010)

(VGN075) ( 11 MAR 75 )

	REFER	ENCE DATA							PARAMETRIC	DATA	
SREF = ; LREF = BREF = SCALE =	2690.0000 474.8100 936.6600 .0300	IN. YHRP	= .00 = 375.00	000 IH.XO 000 IN.YO 002 IN.ZO				ALPHAC = ELV-1B = ELEVON = PH1 = DY =	8.000 .000 5.000 .000 10.000	BETAC = ELV-09 = MACH = DX = BETAD =	5.000 3.000 .600 10.000
			RN/L =	3.24	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	ÐZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	31634	.00972	.03322	.00681	01427	00756	31322	04536	01537	00497
	3.000	29836	.00927	.03003	.00541	01218	00648	29543	04268	01312	08427
	7.500	27015	.00795	.02597	.00378	00979	00533	26742	03908	01057	00355
	15.000	22934	.00625	.02063	.00240	00597	00370	22694	03367	00750	00244
	30.000	17675	.00468	.02048	.00194	00461	00174	17488	02808	00484	00091
	45.000	13621	.00119	.01423	.00265	00335	00089	13435	02248	00345	00030
	60.000	10095	00168	.00927	.00423	00247	.00012	09913	~.01919	00241	.00055
	GRADIENT	.00517	00024	00096	00038	.00059	.00029	.00512	.00083	.00063	.00019
			RN/L =	3.23	GRADIENT II	NTERVAL =	.00/ 12.00				
ALPHAD =	14.800										
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	28576	.00527	.06358	.00720	01689	00603	27952	06426	01785	00176
	3.000	26510	.00254	.05191	.00502	01323	00474	25784	06167	01399	00139
	7.500	23741	.00082	.04328	.00208	~.01002	00292	23056	05564	01043	00041
	15.000	20456	00122	.03748	00002	00560	00111	19819	05067	~.00590	.00033
	30.000	14851	00381	.02761	00217	00189	.00161	14317	03963	~.00143	.00202
	45.000	11510	00425	.02427	00206	.00139	.00290	11066	03197	.00205	.00247
	60.000	08467	00775	.01615	00062	.00341	.00357	08029	02800	.00417	.00264
	GRADIENT	.00655	00058	00264	00068	.00880	.00041	.00649	.00102	.00097	.00018

PAGE 658

CA20 (747/1 01 S1) - (01 S1)	D/S (078 - 010)	(VGND76) ( 11 HAR 75 )
		PARAMETRIC DATA

	REFEREN	CE BATA							PARAMETR10	DATA	
LREF =	690.0800 SQ 474.8100 IN 936.6800 IN .0300	. YMRP	= 1109.0000 = .0000 = 375.0000	IN.YO					000	EETAC = ELV-CB = MACH = DX = EETAO =	000.E- 000.E 000. 000.
			RN/L =	3.22	GRADIENT 1	INTERVAL =	.00/ 12.00				
ALPHAO =	10.000			00° M	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	DZ	DCH		DCLM	01661		.00372	1554		.01655	.00191
	.000	15622	.00897	.05096	0125		.00209	1392	-	.00659	.00163
	3.000	14019	.00671	.03987	0020		.00225	1281	-	.00678	.00109
	7.500	12709	.00595	.02692	0045	_	.00205	1044		.00514	.00118
	15.000	10526	.00452	.01897	00109	_	.00152	0754		.00288	.00103
	30.000	07595	.00354	.01328	.08040	_	.00074	0603		.00114	.00855
	45.080	06081	.00389	.00989	.0013		.00005	0486	900404	00028	.00010
	GRADIENT	04656 .0039!	.00446 00038 -	.00199	1100.		00019	.0038	8\$000.	00050	00011
	GIABILM		RN/L o	3.24	GRADIENT	INTERVAL .	.00/ 12.00				
ALPHAO =	14.000				201	DCBL	DCYN	DCL	QQQ	DCSL	OCLN
	DZ	DCN	DCA	DCLH	DCY	-	.00202	1208		.00927	00023
	.000	121 15	.01261	.06181		=	.00135	1144		.00769	00053
	3.000	11515	.01117	.05307			.00054	- 1067			00079
	7.500	10752	.01014	.04469		-	.00011	0928			00087
	15.600	09322	.01010	.03442			80057	0523	_	.00185	00116
	30.000	06894	.00995	.02062		-	00047	0550	•		00097
	45.000	05463	.00852	.01613			00047	0470			00053
	60.000	84634	.00847	.01200			00018	.0018		•	08807
	<b>GRADIENT</b>	.00181	00032	00225	.0010	900042	00015	.0010			

TABULATED SOURCE DATA - CA20

PAGE 859

CARO	(747/1 01 51) - (01 51)	D/S (077 - 010)

-.00443

-.00090

.08496

GRADIENT

(VGN077) ( 11 MAR 75 )

.00090

	REFEREN	CE DATA						F	ARAMETRIC	DATA	
LREF .	590.0000 SQ 474.8100 IN 936.6800 IN .0300	. YHRP		0 IN.XO B IN.YO 0 IN.ZO				ALPHAC = ELV-18 = ELEVON = PH1 =	4.000 .000 5.000 7.500 .000	BETAC = ELV-08 = MACH = DX = BETAD =	-5.000 3.000 .600 10.000
			RN/L =	3.29	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO >	10.000 OZ .080 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 19593 17176 15594 12810 09327 07460 05439 .00519	0CA .01433 .01115 .00982 .00709 .00569 .00610 .00411 00058	DCLM .04812 .03300 .02879 .01859 .01149 .01003 .00384 00245	DCY0146801250007270046500050 .00107 .00231 .00100	DCSL .01306 .01012 .00840 .00620 .00336 .00166 .00071 00060	DCYN .00341 .00357 .00251 .00224 .00169 .00055 .00003 00013	DCL 19544 17109 15528 12738 09284 07453 05427 .00521	DCD 01991 01884 01741 01526 01060 00695 00539 .00033	005L .01345 .01058 .00871 .00549 .00360 .00175 .00071	DCLN .00109 .00176 .00101 .00103 .00035 00010 00002
ALPHAO =	14.000 DZ .600 3.000 7.500 15.000 30.000 45.000 60.000	DCN 17481 15318 13675 11749 08420 06547 05622	DCA .01473 .01037 .00776 .00738 .08570 .00584 .00723	DCLM .07760 .05711 .04345 .03376 .02100 .01459 .01134	0CY 01701 01476 01939 00546 00295 00153 00084 .00090	DCBL .01249 .00917 .00570 .00285 .00089 00080	DCYN .00041 .00060 00034 00119 00194 00268 00225	DCL 17318 15114 13456 11579 09308 06494 05630	000 02800 02700 02555 02126 01493 01017 00659	DCSL .01221 .00304 .00545 .00249 .00049 00132 00132	DCLN 00262 00163 00170 00184 00212 00252 00199 .00011

GRADIENT

.00573

-.00041

-.00199

.00167

-.08862 -.00014

.00863

.00123

-.00063

100001

TABULATED SOURCE DATA - CA20 PAGE BED DATE 64 DEC 75 CA20 (747/1 01 S1) - (01 S1) D/S (078 - 010)

(VGN078) ( 11 MAR 75 )

	RSFERE	ENCE DATA	,						PARAMETRIC	DATA	
SREF -	2690. <b>0800</b> 9	SQ.FT. XHRP	- 1109.00	00 IN.XO				ALPHAC =	8.000	BETAC -	-5.000
LREF =	474.8100 1	IN. YHRP	00	OP IN.YO				ELV-IB *	.000	ELV-08 =	3.000
EREF =	935.6800 1	IN. ZHRP	- 375.08	00 IN. <b>20</b>				ELEVON *	5.000	MACH =	.600
SCALE =	.0300							FH! =	7.500	DX =	.000
								DY =	.000	EETAO =	.000
			RN/L =	3.2t	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	10.000					,					
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	31400	.0155 <del>S</del>	.03596	02282	.01461	.00219	31193	03920	.01477	000EB
	3.000	28946	.01507	.03325	01724	.01206	.00251	2876B	03543	.01231	.00037
	7.500	25972	.01423	.03080	01115	.00995	.00242	25925	03109	.01022	.88865
	15.000	21769	.01319	.02546	08595	.00732	.00558	21685	02464	.00761	.00098
	30.000	15511	.01041	.01824	00131	.06464	.00181	15554	01685	.00429	.00108
	45.000	11595	.00928	.01365	.00060	.00231	.00094	11926	01151	.00244	.00052
	60.000	09475	.01087	.01165	.00268	.08057	.00034	09519	00575	.00062	.00023
	GRADIENT	.00719	00018	00065	.00154	00851	.00003	.00711	.00107	00060	.00013
			RN/L =	3.30	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	DCN	DCA	DCLM	DCA	DCBL	DCYN	DCL	DCD	DCS1	DCLN
	.000	28208	.01032	.05173	03391	.01566	.00349	27619	05822	.01604	00041
	3.000	25970	.00840	.05336	02765	.01324	.00312	25305	05444	.01361	00017
	7.500	23122	.00719	.04660	02124	.01099	.00245	22609	04853	.01125	00028
	15.000	19122	.00599	.03702	01536	.00824	.00202	16597	04054	.00848	00003
	30.000	13757	.60589	.02859	00878	.00522	.00096	13491	~.02757	.00530	00033
	45.000	18444	.00553	-01952	00597	.00308	00019	10269	01990	.00292	00095
	60.000	06524	.00552	.01786	00421	.00249	00076	08407	01516	#\$\$a.	00134

.00911 -.00116 -.00304

GRADIENT

PAGE 851

	CV50	(747/1	01 51)	- (01 SI)	D/S (079 - 010)
--	------	--------	--------	-----------	-----------------

(VGN079) ( 11 MAR 75 )

	REFEREN	NCE DATA							PARAMETRIC	DATA	
SREF = 2 LREF = BREF = SCALE =	2690.0000 SC 474.9100 IN 936.6600 IN	V. YHRP	08	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = ELEVON = PHI = DY =	8.000 .000 5.000 7.500 .000	BETAC = ELV-0B = MACH = DX = BETAO =	-5.000 3.000 .600 10.300
			RM/L =	3.28	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000										
ALPHAU =	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	34618	.01899	.02064	02238	.01580	.00275	34422	04142	.01604	00004
	3.000	31894	.01718	.01655	01731	.01343	.00312	31708	- 03947	.01377	.00074
	7.500	29219	.01676	.01746	01133	.01158	.00301	29066	- 03424	.01192	.00095
	19,000	25152	.01659	.01717	00622	.00903	.00289	25059	02733	.00939	.00128
	30,900	19367	.01331	.01178	00112	.00532	.00203	18319	01878	.00550	.00108
	45.00 <sub>0</sub>	14218	.01268	.01101	.00146	.00304	.00077	14223	01220	.00313	.00023
	69.000	12363	.01720	.01570	.00467	.00102	.00031	12474	00453	.00105	.00012
	GRADIENT	.00710	00028	00040	.00146	08055	.00003	-00704	.00096	80054	.00013
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00. 12.00				
ALPHAO =	14.600										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	34675	.01950	.05314	03380	.01925	.00456	34117	08497	.01978	00023
	3.000	30600	.01355	.04414	02770	.01509	.00417	30020	06087	.01565	.00840
	7.500	27679	.01052	.03909	02126	.01255	.00318	27111	05675	.01295	.00005
	15.000	23418	.00755	.03228	01442	.00935	.00234	22906	04932	.00964	.00001
	39.000	16498	.00383	.02571	00705	.00525	.00123	16101	036:9	.00539	00008
	45.000	11906	.00030	.01755	00452	.00364	00027	11559	02851	.00347	80114
	69.000	09807	.00164	.01879	00304	.00346	00158	09541	02271	.00297	00237

.00165

-.09087

~.00019

• •

.08911

.00108

-.00089

GRADIENT

PAGE 862

C/	150	(747/1	01	511	-	(01	S1)	0/5	(080 -	0103	
C	150	1747/1	UI	211	-	101	211	0,2	1000 -	0107	

(VCN089)	(1	MAR	75	,
----------	----	-----	----	---

	REFERE	NCE DATA							PARAMETRIC	DATA	
SREF = 8	2290.0800 S	a.FT. XMRP	- 1189.00	88 IN.XO				ALPHAC -	4.000	EETAC -	-5.000
LREF =	474.8100 1		60	00 IN.YO				ELV-IB -	.000	ELY-08 =	3.000
EREF =	936.6800 1		- 375.00	00 IN.ZO				ELEVON =	5.000	HACH =	.600
SCALE -	.0300							PHI •	7.500	DX =	-000
								DY -	10.000	EETAO =	.000
			RN/L =	3.33	GRADIENT INT	ERVAL =	.00.51 \00.				
ALPHAO =	10.000										
	OZ	DC31	DCA	DCLM	DCY	DCBL	DCYN	DCL.	DCD	DCSL	DCLN
	.000	16161	.00969	. 64674	08472	.00223	.08043	16093	01852	.00227	.00084
	3.000	-, 14558	.00540	.03585	00384	.00160	.00026	14557	01917	.00162	00002 00019
	7.500	13421	.00532	.03201	00282	.00113	.00039	:3309	01808	.00116	.00079
	15.080	11464	.00362	.02593	00128	.00094	.00097	11293	01624	.00110	.00179
	30.000	08503	.0027!	.02028	.00164	.00844	.00160	08421	01210	.00071	.00160
	45.600	~.06255	.00125	.01354	.00335	00002	.00162	06221	00970	.00025	.00139
	60.000	03593	00146	.00408	.00433	00055	.00131	03513	00769	00032	.00038
	GRADIENT	.00358	08055	00168	.00028	00014	00000	.80363	.00008	00014	.00002
			RN/L =	3.32	GRADIENT INT	ERVAL =	.00/ 12.60				
ALFHAO =	14.080									240	Det 41
	DZ	DCN	DCA	DCLH	DCY	DCBt.	DCYN	DCL	DCD	OCSL	DCLN
	.089	08558	.003!6	.03553	01267	.00597	.00412	08475	01787	.00592	.00278
	3.608	00169	.00161	.02734	01061	.00455	.00320	07985	01825	.00520	.00200
	7.508	07693	.00112	#S150.	00771	.00354	.00239	07690	01802	.00411	.00143
	15.000	07739	PDECO.	.02101	00440	.00242	.00213	07574	01576	.00286	.0014B
	30.000	66402	.00548	.01893	.00034	.00116	.00205	06345	01017	.00162	.00170
	45.880	04903	.00536	.01254	.00246	.00067	.00201	04887	00665	.00114	00179
	60.000	03641	.00553	.00845	.00442	.00033	.00210	03650	~.00392	.00083	.00195
	GRADIENT	.00023	08028	00165	.00066	00019	00023	.00102	00001	00024	00018

TABULATED SOURCE DATA - CA20

CA20 (747/1 01 SI) - (01 SI) 0/S (081 - 010) (VGN081) ( 11 MAR 75 )

PAGE 863

			CARU	(/4//: (	11 211 - 101	311 013	(001 - 010)	,		., , ,,,,,,	
	REFERE	NCE DATA							PARAHETRIC	DATA	
SREF = 8	2690.0080 SC	D.FT. XHRP	<b>= 1109.00</b>	8D IN.XO				ALPHAC =	4.000	BETAC =	-5.000
	474.8100 II			GO IN.YO				ELV-IB .	.000	ELV-08 -	3.000
	935.6800 11			00 IN.ZO				ELEVON =	5.000	MACH =	.690
SCALE =	.0300		_					PHI =	7.500	DX -	10.000
JUNEA	10000							דע -	10.000	EETAG =	.000
			RN/L =	3.26	GRADIENT IN	TERVAL =	.00/ 12.08				
ALPHAO =	10.000										
	DZ	DCN	DCA	DCTH	DCA	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	167 <del>84</del>	.00913	.02901	00948	.00434	.00000	16671	02114	.00428	00075
	3.000	15496	.00545	.02337	00858	.00333	.00004	15372	02055	.00329	00054
	7.500	14358	.00566	.02345	00631	.00256	80004	~.14238	01936	.00251	00848
	15.000	12399	.08455	.02066	00473	.00170	.00035	12290	01704	.00173	.00005
	30.000	08828	.00179	.01484	00155	.00093	.00093	08725	01357	E2000.	.00077
	45.000	06903	.00160	.01290	.00039	.00011	.00892	06826	01042	.00027	.00083
	60.000	05659	.00269	.01337	.00239	00082	.00086	05619	00718	00046	.00096
	GRADIENT	.00318	00032	00069	.00043	00023	00001	.00319	.00024	00023	.00003
			RN/L =	3.25	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	000	DCSL	DCFN
	.000	12471	00009	.03515	02214	.00869	.00179	12099	03025	.00693	51009.
	3.000	11256	00328	.02476	01997	.00598	.00080	10642	03041	.00599	00067
	7.500	10263	00423	.01886	01747	.00532	.00044	09654	02899	.00527	00065
	15.000	08954	00323	.01505	01402	.00374	.00012	06510	02479	9355	00079
	39.000	07734	.00285	.01694	00795	.00119	00039	07573	01594	.00106	03067
	45.088	06059	.00370	.01405	00549	.00050	00049	05969	01106	.00037	00060
	60.000	04940	.00505	.01113	00365	.00028	00011	04915	00705	.00022	00017
	GRADIENT	.00269	00054	00223	.00062	08818	00017	.00293	.00018	00021	00012

PAGE ES4

CARD	1747/1	01	SIT	-	(01	SI)	D/S	1083	•	010)	
------	--------	----	-----	---	-----	-----	-----	------	---	------	--

(VSN092) ( 11 HAR 75 )

PARAMETRIC DATA

REF	ERENCE	CAT/
-----	--------	------

-5.000 BETAC = 4.000 ALPHAC = SREF - 2590.0000 50.FT. XMRP - 1109.0000 IN.XO ELV-09 -3.000 .000 ELV-18 -.6008 IN.YO AHEA . LREF = 474.8100 IN. .600 HACH = 5.000 ELEVON = ZMED - 375.0000 IN.20 EREF = 935.6880 IN. .000 ĐΧ FHI \* 7.500 10.000 EETAO = .080 SCALE -.0300 DY

# RN/L = 3.33 GRADIENT INTERVAL = .00/ 12.00

ALPHAO □	10.000 DZ .000 3.000 7.500 15.000 50.000 45.000 60.000 GRADIENT	DCN16161146581342111464655930529503593	00A .00969 .00540 .00532 .00362 .00271 .00125 00146 00055	0CLM .04674 .03585 .03201 .02593 .02028 .01354 .00408	DCY00472003840026200128 .00164 .00335 .00433	008L .00283 .0016D .00113 .00094 .00044 00002 00055 00014	.00043 .00026 .00039 .00097 .00160 .00162 .00131	OCL 16083 14557 13309 11293 08421 06221 03613 .00363	000 01852 01917 01805 01624 01210 00970 00768 .00009	0051 .0027 .00162 .00118 .00110 .00971 .00026 00032	00000 - 00000 - 00000 - 00019 - 00150 - 00160 - 00158 - 00002
----------	--------------------------------------------------------------------------------------------	----------------------------------------	-----------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------	-----------------------------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------------	------------------------------------------------------------------------------------

# RN/L = 3.32 GRADIENT INTERVAL = .00/ 12.00

50000 - 29200 - 20200 - 00003 - 00000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 200000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 200000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 200000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 200000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20000 - 20
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

STE AU	~~~	 TACHE	ATEN	SOURCE	DATA	-	CAP

PAGE 055

(VGN083) ( 11 MAR 75 ) CA20 (747/1 01 S1) - (01 S1) D/S (083 - 010) PARAMETRIC DATA

#### REFERENCE DATA -5.000 ALPHAC -8.000 BETAC = XHRP - 1109.0000 IN.XO 2690.0000 SQ.FT. 3.000 .000 ELV-09 = ELV-IB = .0000 IN.YO YMRP 474.8100 IN. LREF .600 MACH ELEVON -5.000 375.0000 IN.ZO ZHRP 936.6800 IN. BREF 10.000 PHI 7.500 DΧ SCALE -.0300 ESTAD = .086 10.000 DY .60/ 12.00 GRADIENT INTERVAL -3.25 RN/L = ALPHAO - 18.000 DCLN DOSL DCYN DCŁ DCD DCBL DCLH DCY DCN DCA DZ -.00164 -.04083 .00538 -.31267 .00558 -.00058 -.00938 .01402 .01015 -.31501 .000 -.00161 -.03788 .08456 -.000090 -.29788 -.08773 .08477 .01353 .01430 3.000 -.29914 .00389 -.00134 -.00065 -.27131 -.03422 .00405 .01535 -.00672 7.500 -.27313 .01341 .00302 -100063 -.22555 -.02933 -.00010 .00308 .01300 -.00545 -.22722 .01028 15.000 .00034 -.02097 .00147 .00139 .00059 -.16529 -.00189 .00822 .01429 30.000 -. 16737 .00057 -.01576 .00044 .00074 -.12891 .00031 .01262 .00025 -.12743 .00547 45.080 .00193 -.01258 -.00047 -.10292 .00336 -.00081 .00167 .00957 -.10354 .00548 60.000 .00004 .000EB -.00019 .00022 -.00020 .00801 .00553 -.00010 .00087 GRADIENT .00550 .00/ 12.00 GRADIENT INTERVAL \* 3.24 RN/L = ALPHA0 = 14.080 DCLN DOSL DCD DCYN DCL DCY DCBF DCLH DCA DZ DCN -.00199 -.28769 -.06446 .00574 .00604 -.00049 -.01911 .00221 .02142 -,27933 .000 18400. -.00167 -.06194 -.00046 -.24671 -.01850 .00508 .01625 -.08042 3.000 -.25438 -.0014B -.22246 -.05914 .00413 -.00044 -.01719 .00437 -.22392 -.00259 .01514 7.500 .00276 -.00045 -.05112 -.16457 .00278 .00023 .01389 -.01543 -.08495 -. 19145 15.000 .00037 .00253 .00097 -.13933 -.03765 -.01090 .00237 .01911 -.00283 30.000 -. 14430 180001 -.10315 -.02835 .00307 .00283 .00133 -.08944 -.00265 .01650 -.10595 45.000 .00287 .00042 -.01545 .00110 -.09782 .00269

.01856

-.00079

.00237

-.00063

-.08892

.00601

60.000

GRADIENT

-.00598

.00026

-.00022

.00001

.00593

.00064

-.uuSai

	REFER	ENCE DATA							PARAMETRIC	C DATA	
SPEF = 0 LREF = BREF = SCALE =	939.8000 9 974.8100 1 935.8900 1	IN. YM	567 • .	0800 IN.XO 0800 IN.YO 9800 IN.ZO				ALPHAC = ELEVON = PHI = DY =	4.000 .000 5.000 <b>7.</b> 509	EETAC = ELV-09 = MACH = DX = GETAD =	.080 3.008 .600 .000
			RML	3.18	GRADIENT I	NTERVAL =	.00/ 12.00				
ALFHAO =	10.000										
	ĐZ	DCN	DCA	DCLH	DCY	DC9L	DCYN	DCL	DCD	DCST	DCLH
	.000	14540	.00834	.05121	00210	.00282	00006	14464	01764	.00277	80855
	3.000	13309	.00331	.04028	00232	.00273	.00025	13216	01690	.00274	00023
	7.500	12055	.08554	.03382	00176	.00230	.00019	11959	01548	.00233	00023
	15.000	10852	.00462	.02578	00149	.00205	.00050	09979	01291	.00211	.00013
	30.000	07534	.00427	.01933	00037	.00129	.00070	07494	08828	.00139	.00045
	45.000	05552	-00337	.01224	00001	.00051	.00047	05536	006E4	.00053	.00039
	60.000	84874	.00228	.00442	.08035	00039	.10012	04051	00465	00036	.00018
	CRADIENT	.00327	00036	00225	-00008	00006	.00003	.00328	.00022	00005	<b>-00009</b>
			EN/L *	3.19	GRADIENT II	TERVAL =	.09/ 12.00				
ALPHAO =	14.080										
	DZ	ÐCti	DCA	DCLH	DCY	OCEL	DCYN	DC1_	OCD	DCSL	DCUN
	.000	14378	.01118	.05406	00822	.00332	00103	14222	02394	.00297	00160
	3.000	13237	.08997	.04384	00836	.00385	00102	13082	02244	.00271	00173
	7.500	13260	.00997	.84159	00823	.00389	00078	1310B	02241	.00281	00159
	15.000	- 12142	.00975	.03223	00799	.00278	00059	12017	01591	.00255	00124
	30.000	09350	.00972	.02026	~.00617	.00178	00063	09309	01319	.00155	00104
	45.080	08387	.01101	.01427	00579	.00133	00065	+.06484	00961	.00113	00056
	60.000	04564	.00890	.01693	08455	.08075	08864	04643	00241	.00057	00086
	GRADIENT	.88137	00015	00157	.00000	00003	.00003	.001ES	.00019	00002	.00004

DATE 64 DEC 75 TABULATED SOURCE DATA - CA20

GRADIENT

.00450 -.00091 -.00422

PAGE 267

			LAZO	114111	11 211 - 101	211 0/2	(682 - 683)	•	t VGNUE	D) tiin	N 15 J
	REFER	ENCE DATA							PARAHETRIC	DATA	
SREF = i	2690.0000	SQ.FT. XHRP	= 1169.66	90 IN.X9				ALPHAC =	4.089	PETAC =	-000
LREF -	474.8100	IN. YMEP	60	00 IN.YO				ELV-18 =	.000	ELV-09 =	3.000
BREF -	935.6800	IN. ZHRP	= 375.00	80 IN.ZO				ELEVON -	5.000	MACH =	.608
SCALE =	.9309							PHI =	7.500	DX =	10.000
								DY •	.000	EETAO =	.000
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAD =	10.008										
	DZ	DCN	DCA	DCLM	DCY	DCBL.	DCYN	OCL.	DCD	DCSL	DCLN
	.088	18283	.01178	. 64599	~.00179	.00348	.00039	18209	02015	.00349	00022
	3.000	- ୍ର <b>ମ</b> େ	.00917	.03369	00196	.00327	.08849	16595	01993	.00330	00009
	7.500	15077	.00777	.02655	00145	.00286	.08859	14993	01E53	.00290	00001
	15.000	12815	.00646	.019\$0	00176	.00258	.00072	12733	01559	.00267	.00027
	39.000	09493	.00564	.01339	00050	.00183	.00102	05446	01093	.0015B	.00059
	45.000	07565	.00506	.01017	.00035	.00077	.00065	07538	00315	.00097	.08050
	60.000	05889	.08479	.08817	.00171	00044	.00033	05963	08548	0803B	.00040
	GRADIENT	.00422	00052	00251	.00005	00008	-00001	.00424	.00022	00008	.00003
			RN/L a	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	DCN	DCA	DCLM	DCY	DCEL	DCYN	DCL	DCD	DCSL	DCLN
	.000	15589	.00728	.06949	00223	.00355	00095	15300	03073	.0032+	00171
	3.000	13943	.00316	.05146	00858	.00354	00054	13605	03057	.00330	08133
	7.500	12177	.00082	.03718	00843	.00332	00061	11838	02857	60200.	00140
	15.000	10157	.00183	.02671	00656	.00185	00131	09900	02280	.00147	00172
	30.600	07013	.00312	.01560	00355	.00011	00206	06680	01394	00040	00203
	45.000	05240	.00631	.01495	00465	.00039	00166	05237	00655	00002	00171
	60.000	05465	.00728	.01148	00311	00028	00122	05478	00616	00055	00112

-.00002

-.000094

.00003

.00456

.00030

-.00084

TACIALATED SOURCE DATA - CA20 BATE OF BEC 75

-.08037

.00497

60.000

GRADIENT

.00536

-.00021

.01806

-.00142

-.00552

.00002

CA20 (747/1 01 SI) - (01 SI) D/S (085 - (10) (VGNURS) ( 11 MAR 75 ) PARAMETRIC DATA CEVETENCE DAYA ALPHAC = B.000 BETAC -.000 STEF = 1700.0000 SD.FT. HOTP = 1.60.0000 IN.XO ELV-IB = .080 ELV-08 = 3.000 ಜ್ಞಾ ಇ .9000 IN.VO LREF = 979.0100 IN. .600 5\_000 MACH ELEVON = -7.7F = 2000 575.0000 IN.ZO 9ES.SEDD IN. .000 PHI 7.500 DX SCALE = .OEOB .000 BETAC -.000 ΩY TOWL - 3.22 GRADIENT INTERVAL -.80/ 12.00 A 2000 € 10.000 DCEL DCYN DCL DCD DCSL DCLN E COL N DCV 8800 BEA 02 -.38647 -.03727 .00602 .00029 .00598 .00133 -.30080 .01GS1 . 5110E1 -.00238 . 000 -.03442 .00551 .00027 -.28209 .01509 .03455 -.00263 .08548 .00124 3.03€ -.89379 .00010 .00495 S2000. -.25543 -.03093 .00504 -.00224 .03039 7.520 -.25593 .01339 .00410 .00030 .00101 -.21925 -.02539 .00359 15.000 -.21639 .01239 .02559 -.00206 .00257 .00046 .01897 -.00032 .00245 .00090 -.15478 -.01699 .01014 30.000 -.15538 .80637 -.11935 -.01168 .00135 .0003+ .08057 .00127 -.11957 .00922 .01457 45.000 .00059 -.00599 .00011 .00159 .00000 .00060 -.09847 .00692 .01219 60.000 -.09031 .00864 -.00013 -.00003 -.00012 -.00005 .00573 .00002 -.00128 GRADIENT .00678 -.00054 .00/ 12.00 fiN/L ≃ 3.21 CRADIENT UNTERVAL = ALFMAD = 19.880 DCSL DCLN DCY OCEL DCYN DCL DCD DOLFI 02 CON DCA -.05552 .00674 -.00074 .00891 ~.25289 .00572 .05423 -.01152 .000 -.25981 .00730 - 05300 .00639 -.00055 -.23651 .00579 .04825 -.01165 .00633 .00101 -.24231 3.000 -.21615 -.04809 .00584 -.00040 ~.01139 .00577 .00102 .00553 .04400 7.500 -.22136 -.04028 -.80004 .00543 -.17989 -.01103 .00528 .00128 15.000 -.16429 , լյ ၅444 .03536 -.03060 .00435 -.00814 .0250% -.80854 .00425 .00092 -.14392 -.14704 .00513 50.000 -.02160 .00293 -.00073 .00003 -.10957 .00533 .02120 -.00700 .00301 -.11159 45.000

.00239

-.00013

-.00017

.00001

-.07927

.00497

-.01424

.00100

-.00074

.00004

85500.

-.00012

PAGE 858

3.000

7.500

15.000

30.080

45.000

66.000

**GRADIENT** 

-.29243

-.26847

-.22569

-.13969

-.09735

-.05461

.00723

TABULATED SOURCE DATA - CA20

CA20 (747/1 01 SI) - (01 SI)

PARAMETRIC DATA REFERENCE DATA BETAC = .000 9.000 ALPHAC = 1109.0000 IN.XO XHPP SREF = 2690.0000 SQ.FT. 3.000 ELV-08 = ELV-IB -.000 .0000 IN.YO 474,8100 IN. YHRP LREF = .600 ELEVON = 5.000 MACH 375.0000 IN.ZO ZMRP = 936.6800 IN. BREF = 10.000 7.500 DX PHI SCALE = .0300 .000 .000 EETAO = GRADIENT INTERVAL -.00/ 12.00 RN/L # 3.28 ALPHAO = 10.080 DCSL DCLN DCYN DCI. DCD DCY DCBL DCLH DCA DΖ DCN .00107 .00216 -.33438 -.04015 .00635 .00507 .02472 -.00202 .01852 .000 -.33627 .00606 .00095 -.31227 -.03765 .00199 .00590 .01715 .02100 -.00250 -.31406 3.000 .00554 .00092 -.03370 -.00237 .00530 .00187 -.28625 .01652 .02641 7.500 -.28776 .00068 -.027BB .00475 -.24784 .00455 .00149 -.CO160 .01544 .01945 -.24813 15.000 .00080 -.01997 .00348 ~.18373 -.00045 .00329 .00139 .01223 .01224 30.000 -.18441 .00033 -.14481 -.01406 .00178 .00170 .00063 .00123 -.14505 .01130 .01215 45.000 -.00008 .00111 -.00685 .00108 -.12255 .01623 .00380 -.00027 .01254 60.000 -. 12224 -.00002 -.00011 -.00004 .00637 .00086 -.00004 -.00010 -.00026 -.00054 GRADIENT .00642 GRADIENT INTERVAL = .00/ 12.00 3.27 RN/L = ALPHAO = 14.000 DCLN DCD DCSL DCYN DCL DCBL DCA DCLH DCY ĐΖ DCN .00775 -.00040 .00149 -.31791 -.06373 .00762 .05623 -.01090 .01507 .080 -.32388 .00699 -.00029 -.28599 -.06172

-.01092

-.0109B

--.00990

-.00718

-.00577

-.08446

-.00001

.03732

.03505

.02667

.02869

.01991

.02089

-.00264

.00930

.00805

.00371

.00924

-.00144

-.00037

-.03088

.00595

.00512

.00492

.00310

.00164

.00206

-.00020

.80141

.00127

.00104

.00028

-.00069

-.08054

-.00003

-.25244

-.21989

-.13560

-.08441

-.05290

.00723

-.05714

-.05100

-.03356

-.02253

-.01357

.00089

D/S (087 - 010)

PAGE 859

-.00024

-.DOC18

-.00048

-.00112

-.00111

.000^2

.00625

.00503

.00308

.00162

.00164

-.00020

(VSN087) ( 11 MAR 75 )

CA20 (747/1 01 S1) - (01 S1) D/5 (088 - 010)

(VGN088) ( 11 MAR 75 )

	REFER	ENCE DATA							PARAMETRIC	: DATA	
SREF = ; LREF = ERSF = SCALE =	2630.0080 474.8100 936.6809 0300	IN. YHRP	00	180 IN.XO 180 IN.YO 180 IN.ZO				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.000 .000 5.000 7.500	EETAC = ELV-03 = HACH = DX = ETAO =	080. 3.080 083. 080.
			RN/L =	3.34	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ .000		DCA .00798	DCLM .05202	8CY .08511	0036 00360	0CYN 00238	OCL 16976	DCD 02024	DCSL 00393	0CLN ~.80172
	3.000		.00925	.04269	.00356	00286	00190	- 14753	01967	00315	00137
	7.500		.00539	.03524	.00 <del>297</del> .00191	00227	00150	13468	~.01828	00249	00108
	15.000 30.000	11310 08509	.00264 .00222	.02684 .02042	.00258	00140 00075	00056 .00085	11164 06418	01704 01259	00147 00860	00031 .00095
	45.000		.00141	.01455	.00325	00053	.00124	06459	00995	00031	.00131
	60.000		00845	.00779	.00356	00009	.00105	6435!	00914	.00009	.00105
	GRADIENT	.00342	00033	00205	00027	.00017	.00012	.00343	.00027	.00019	.00008
			RN/L =	3.32	GRADIENT IN	TERVAL =	.00/ 12.00				
ALFHA .	14.000										
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DOSL	DCLN
	.000	07704	08437	.03186	00396	.00009	.00168	07369	02287	.00048	.00162
	3.000	08372	00174	-03318	00341	.00076	.00137	08081	02195	.00107	.00115
	7.500	08538	00011	.03110	00321	.00154	.00129	08282	02076	.00181	.00028
	15.000	07484	.08644	.02351	00241	.00148	.00147	07272	01769	.00179	.00107
	30.000	08844	.00369	.01794	10000.	.00948	.02197	05954	01104	.00082	.00131
	45.000	04848	.00471	.01340	.00237	.00024	.60160	04818	00716	.00082	.00149
	60.000	04002	.00534	.00929	.00423	.00003	.80170	04012	08459	.00044	.00164

.00008

.08019

-.08885

-.00116

.00028

.00018

-.000009

GRADIENT

-.00105

.00855

-.00013

# TABULATED SOURCE DATA - CA20

CA20 (747/1 01 SI) - (01 SI) D/S (089 - 010)

1 01 513 - (01 51) D/5 (089 - 010) (VGN089) ( 14 MAR 75 )

PAGE 871

								F	ARAMETRIC	DATA	
LREF -	REFERENCE 690.0000 SQ.F 474.8100 IN. 935.6800 IN. .0300		- 1109.000 000 - 375.000	0 !N.YO 0 !N.ZO	GRADIENT INTE	rval =	.00/ 12.66	ALPHAC = ELV-18 = ELEVON = PH! = OY =	.000 5.000 7.500	BETAC = ELV-09 = MACH = 0X = BETAO =	.000 3.000 .600 10.000
ALPHAG =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN15897156711431112224090630708905559 .00330	OCA .80717 .00546 .00454 .00382 .00193 .00192 .00400 00034	OCLH .03478 .02904 .02559 .02149 .01715 .01380 .01370 00119		DCBL 00231 00164 00154 00103 00061 00060 00065 .00010	OCYN 00247 00239 00210 00114 .00007 .00073 .00173 .80005	DCL 16676 15528 14172 12105 06950 07015 05553 .00331	0CD 02213 02184 02038 01746 01378 01041 00573 .00024	DCSL 00270 00223 00189 00182 00059 00047 00055 .00011	DCLN 00203 00204 00180 00094 .00017 .00082 .00185 .00003
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 GRADIENT	OCN 11708 11129 10469 08211 07249 05938 05210 .00163	OCA 00703 00850 00776 00855 .00022 .00126 .00347 00008	0CLM .03426 .02742 .02544 .01526 .01616 .01349	01354 01358 01248 00822 00547 00313	DCBL 00029 .00101 .00144 .00185 .00027 00040 00039	DCYN 00035 00079 00065 00061 00093 00115 00067 00003	DCL 11188 10592 09971 07750 07039 05695 05139	DCD 03514 03517 03265 01732 01732 01290 00924 .00032	DCSL 00037 .00079 .00124 .00165 .00004 00066 00054	DCLN 00088 00101 00099 00104 00097 00108 00099

CARD (747/) 01 S1) - (01 S1) D/5 (090 - 010)

(VGN090) ( 11 MAR 75 )

.00520

.00016

.00116

.00041

.00007

	REFERE	NCE DATA							PARAMETRIC	DATA	
	2690.0000 S 474.8100 I 936.6800 I .0300	N. YMRP	00	100 IN.XO 100 IN.YO 100 IN.ZO				ALPHAC = ELV-18 = ELEVON = PHI = DY =	6.000 .000 5.000 7.500 10.000	EETAC = ELV-08 = MACH = DX = EETAO =	.080 3.600 .600 .000
			RN/L =	3.27	GRADIENT IN	ITERVAL =	.00/ 12.00				
ALPHAO =	10.000										
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	000	DCSL	DCLN
	.000	31665	.01461	.03864	.01134	00326	00247	3143B	04059	00354	00162
	3.008	29052	.01311	.03455	.00807	00248	00243	28939	03754	00265	00197
	7.500	25751	.01100	.02879	.08527	00189	00193	25551	03388	00220	80157
	15.000	21785	.01021	.02800	.00304	00126	00112	21632	02778	00144	00083
	30.600	15622	.00749	.02203	.00254	00091	.00045	15514	01975	00072	.00058
	45.808	11569	.00542	.01587	.00322	00091	.00104	11487	01475	00072	.00118
	60.000	07782	.09390	.01050	.08414	00111	.00152	67732	00957	00093	.00169
	GRADIENT	.00784	00048	80124	00079	00018	.00008	.00781	.00089	.00019	₹8089.
			FM/L =	3.28	GRADIENT IN	ITERVAL =	.00/ 12.00				
ALPHAO =	14.080										
	DZ	DEN	DCA	DCLM	DCA	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	23762	00076	.03822	.00559	00293	00033	23037	05823	00292	.00039
	3.000	21650	00191	.03157	.00249	00142	.00016	21155	05472	00134	.00049
	7.500	19728	00103	.02759	00072	00082	.00089	19098	04950	.00020	.000B7
	15.000	16743	00166	.02526	00271	.80075	.00179	16206	64211	.00116	.00155
	30.000	12095	00046	.02049	00148	.00137	£8570.	11724	02971	.00198	.00222
	45.000	09301	.00218	.01838	00048	.00189	.00328	09078	02038	.00262	.00272
	60.000	06926	.00226	.01236	.00199	.00169	.00334	06775	01456	.00244	.00283
			000.7	00177	00007	00070	00016	กกรอก	21100	តាការ	_00007

.00533

GRADIENT

-.00013

-.00137

----

-.00083

TASULATED SOURCE DATA - CA20

PAGE 873

			CA28	(747/1 0	1 51) - (01	S1) 0/S	(091 - 010)		(VGN09	1) - C 11 MA	R 75 1
	REFEREN	CE DATA						1	PARAHETRIC	DATA	
SREF = 8 LREF = BREF = SCALE =	2690.0000 SQ 474.8100 IN 936.6800 IN .0300	. YMRP	• .00	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = ELV-IB = ELEVON = PHI = DY =	8.000 .000 5.000 7.508 10.000	BETAC = ELV-0B = MACH = DX = EETAO =	.000 3.000 .600 10.000
			RN/L =	3.28	GRADIENT IN	terval =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN31915296922663422728167541300613878 .00702	DCA .01417 .01303 .01096 .00981 .00747 .00573 .02207 00843	DCLM .01990 .01829 .01560 .01553 .01628 .01578 .04461 *.00059	DCY .00512 .00269 .00025 00139 00041 .00040 .00466 00064	DCSL 00210 00139 00086 00054 00039 00075 00024 .00016	DCYN0024800251002310013400018 .00032 .00189 .00002	0CL 31676 29458 26419 22553 16629 12925 14051 .00699	000 04146 03971 03545 02980 02174 01596 00236	DCSL 00250 00180 00125 00077 00041 00068 .00009	DCLN 00207 00223 00212 00122 00012 .00044 .00169 00000
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN26284243512162618534130551072208451 .00620	DCA 80447 80529 00767 00750 00762 00130 .00009 00042	DCLM .01752 .01367 .01077 .01219 .01048 .01811 .01656 00088	DCY 00526 00742 00956 01143 01051 01020 00730 00057	DCBL 00259 00159 00800 00877 .00095 .00257 .00316 .00023	DCYN00284002720021400098 .00053 .00180 .00218 .00010	DCL 25395 23476 20799 17802 12483 10372 08202 .00612	DCD 06793 06501 05976 05212 03898 02720 02036 .00109	DCSL 00320 00219 00129 00098 .00105 .00293 .00360	DCLN 00213 00226 00168 00077 .00028 .00113 .00135 .00004

-.00070

PAGE B74

.00064

.00000

CA20 (747/1 81 St) - (01 St) D/S (092 - 010)

(V6N092) ( 11 MAR 75 )

60.000

GRADIENT

.00284

### PARAMETRIC DATA

	referen <b>c</b> e (	BATA									
LREF -	590.0000 SQ.FT. 474.8100 IN. 925.6900 IN. .0300	, XIARP YMAP ZMAP		0 IN.XO 0 IN.YO 0 IN.ZO				ALPHAC = ELV-18 = ELEVON = PH1 = OY =		PSTAC = ELV-08 = MACH = DX = ESTAD =	5.000 3.000 .600 .000
			RN/L =	3.39	GRADIENT IN	TERVAL =	.00/ 12.00				
alehao =	.000 - 3.000 - 7.500 - 15.000 - 50.000 -	00N .17100 .15554 .14001 .11593 .08552 .06379 .03792 .03408	9CA .00928 .00716 .00817 .00371 .00221 .00123 .00855 00040	DCLM .05768 .05265 .04314 .03179 .02221 .01459 .00462 00320	0CY .00834 .00593 .00508 .00334 .00265 .00263 .00259 00016	DCBL 00979 00721 00542 00357 00177 00166 00029 .00057	DCYN60555004280032900185 .00015 .00092 .00150 .00031	DCL 17001 15452 12895 11481 08559 06303 03744 .00409	DCD 02055 01999 01824 01885 01885 00987 00903	DCSL 01082 00784 00591 00384 00171 00088 00021	CCLN 00397 00298 30230 00160 .00046 .00169 .00152
ALPHAD =	3.000 7.500 15.000 30.000 95.000	00N 11195 10253 09057 07454 05508 04628 03225	00A .00535 .00211 00007 00028 .00242 .00240	00LM .07427 .08980 .04132 .02730 .01686 .01269	0CY .00016 80093 00183 00203 00002	DC9L 00750 00438 00135 .00039 .00031 .00021	0015 00162 00066 .00015 .00066 .00136 .00169	DCL 10992 10005 09765 07625 05500 04595 03852	000 02169 02177 02163 01630 01122 00692	DCSL 00767 00991 00129 .00659 .00063 .00061	DCLN .00024 .00041 .00047 .00074 .00124 .00159 .00195

.00091

-.00028

-.00435

.00023

TABULATED SOURCE DATA - CA20 DATE 04 DEC 75

(VGN093) ( 11 MAR 75 ) CA20 (747/1 01 S1) - (01 S1) D/S (093 - 010)

PAGE 875

				<del>-</del> -							
	REFERENCE	DATA						1	PARAMETRIC	DATA	
LREF =	2690.0000 SQ.F 474.0100 IN. 936.6600 IN. .0300	YHRP		0 IN.XO 0 IN.YO 0 IN.ZO				ALPHAC = ELV-18 = ELEVON = PHI = DY =	4.000 .000 5.000 7.500 10.000	EETAC = ELV-08 = MACH = DX = EETAO =	5.000 3.000 .600 10.000
			RN/L =	3.29	GRADIENT IN	ITERVAL =	.00.11.00				
ALPHAO =	10.000 DZ - .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN17695159721425912063069310668004509	DCA .00748 .00513 .00369 .00326 .00203 .00219 00049	DCLH .05059 .03919 .03167 .02544 .01959 .01442 .00892 00246	DCY .00212 .00108 00003 00139 00162 00079 .00045 00028	DCBL 00962 00970 00910 00334 00175 00134 00128 .00046	007N 08546 00443 00345 00086 00086 .00032 .00086	DCL 17456 15818 14105 11935 08930 06589 04402 .00443	DCD 02329 02269 02116 01773 01351 01110 00993 .00029	DCSL 08943 09735 00582 00355 00178 00188 00115	DCLN 00398 00380 00261 00147 .00004 .00054 .00089 .00018
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	9CN 15492 13791 11542 08977 08475 08548 04694 .00524	DCA .00413 80046 00469 00659 0062 .00173 .00334 00116	DCLM .07391 .05449 .03595 .02165 .01265 .01193 .01182	DCY0112601167012950139601057008950054000023	008L 00726 00391 00137 .00106 .00125 .00058 .00012	DCYN002860017800105000030001200008 .00018	DCL 15131 13370 11085 09551 06219 05425 04625 .00537	DCD 03347 03381 03246 02810 01221 01174 00809	DCSL 00759 00423 00169 .00103 .00118 .00054 .00016 .00078	DCLN 00043 00078 00069 00020 00042 00022 .00015 00003

TABULATED SOURCE DATA - CA20 DATE 04 DEC 75

-.05662

.00674

69.888

**GRADIENT** 

(VCN094) ( 11 MAR 75 )

.00044

.00029

PAGE 876

.00021

.00095

.00120

CA20 (747/1 01 51) - (01 51) D/S (094 - 010)

-.08099

-.00357

- .00044

			CALO								
	REFERENC							1	PARAMETRIC	DATA	
LREF =	550.0000 50. 474.8100 IN 935.6800 IN	FT. XMRP VMRP		10 1N.XO 10 1N.YO 10 1N.ZO				ALPHAC = ELV-10 = ELEVGN = FH1 = DY =	8.000 .000 5.000 7.500 18.000	BETAC = ELV-09 = MACH = DX = GETAO =	5.000 3.000 .600 .600
			MVL ≠	3.26	GRADIENT INTE	ERVAL =	.00/ 12.00				
ALFHAÖ □	10.000 DZ .000 3.000 7.500 15.000 50.000 45.000 60.000 GRADIENT	DCM 31201 28834 25765 21508 15403 11379 07540 .00722	DCA .01351 .01254 .01146 .00971 .00746 .00537 .00334 03027	001M .05160 .64289 .02722 .03045 .02350 .01706 .01189 00189	DCY .01153 .00997 .00779 .00471 .00279 .00274 .00269 00050	DCEL 00909 00737 00519 00312 00177 00135 00109 .00062	DCYN0659406493003630026000067 .00067 .00123 .00031	OCL 30962 86963 86972 21350 15299 11299 07464 .00716	000 04087 03781 03745 01942 01947 00931 .00083	DCSL 01077 00912 00574 00342 00176 00121 00086 .00086	BCLN 00413 80369 00268 00143 .00024 .00059 .00148
alphad =	14.000 02 .000 3.000 7.500 15.000 30.000 45.000 60.000	DCN24655246519765162721147506565	DCA .60149 00069 00196 00697 00201 .00018	0CLM .06149 .04621 .03414 .02632 .01665 .01557	.00569 .00165 00102 00221 00166	DCBL 00950 80599 90282 00118 .00130 .00197	DCYN 00353 00109 00032 .00102 .00250 .00312	DCL 24163 21765 19130 15717 11086 08431 05724	0C0 05970 05519 04971 04225 02978 02064 01397	DCSL 01010 00029 00202 00050 .00187 .00257 .00253	00LN 00124 00047 .00037 .00127 .00211 .00258 .00261



## TABULATED SOURCE DATA - CA20

-.08095

.00804

69.000

GRADIENT

-.00114

-.08094

CA20 (747/1 01 S1) - (01 S1) D/S (095 - 010) (VGN095) ( 11 MAR 75 )

-.07827

.00823

.00214

.08026

-.02069

.00103

PAGE 877

.00127

.00010

.00376

.00068

	REFEREN	CE DATA						1	PARAHETRIC	DATA	
SREF =	2690.0000 SQ	FT. XHRP		00 IN.XO				ALPHAC =	8.000	BETAC = ELV-09 =	5.000 3.000
LREF =	474.8100 IN	. YHRP	08	OD IN.YO				ELV-18 =	.000		.600
BREF =	936.6800 IN	. ZHRP	= 375.00	00 IN.ZO				ELEVON =	5,000	=	10.000
SCALE =	.0380							PHI =	7.500	<b></b>	.000
								DY =	10.000	BETAO =	.000
			RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000					***	6841	DCL	DCD	DCSL	DCLN
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN		64279	00838	00373
	.080	31494	.01209	.02998	.00592	00761	00513	-,31225	64016	00615	00326
	3.000	29376	.01102	.02480	.00356	00549	00428	29121		00424	00293
	7.500	26328	.08984	.02865	.00126	00367	00362	26099	03503	00729	60191
	15.009	22549	.00930	.01923	00113	00231	00235	22359	03000 02161	00154	00055
	30.000	16234	.00659	.01628	00127	00142	00082	16103		00115	.00017
	45.888	12136	.00482	.01414	00099	00116	08003	12035	01633	.00030	.00229
	60.000	09202	.00573	-01748	.00179	00012	.00239	09161	01033	.00054	.00010
	GRADIENT	.00698	00030	00123	00050	.00852	.00020	.00683	.00000	.00054	.00010
	·		RN/L =	3.25	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO 1					DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	OZ	DCN	DCA	DCLH		00931	00542	27059	06921	01035	00301
	.000	27915	00069	.64548	00127	00623	08432	23419	05549	80789	00289
	3.000	24330	00786	.02422	00461		00339	20892	06062	00513	00222
	7.500	21739	00228	.01913	00693	08444		16644	05193	00321	00070
	15.000	17680	00964	.01080	01082	00294	00146	11493	03931	.00071	.00012
	30.000	12120	01081	.08447	01235	.00065	.00029		03531	.00245	.00078
	45.800	09787	00541	.01147	01195	.00219	.00135	09365	- nensa	.00376	.60127
				044.03	00007	00221	anoth	<b>-</b> ภาคอา	- 112 (25.9	. 1111.5 / 0	.00167

-.00927

-.00074

.01493

-.00333

.00334

DATE 04 DEC 75 TAS

30.000

95.000

60.000

GRADIENT

-.0%973

-.03099

-.00967

.00340

### TABULATED SOURCE DATA - CAED

CAED (747/1 01 SI) + (01 SI) D/S (095 - 007) (VGN095) f 11 MAR 75 ) PARAMETRIC DATA REFERENCE DATA -5.000 4.880 EETAC = SREF = 2888.0000 SQ.FT. MRP = 1109.0000 IN.XO ALFHAC -ELV-18 . .000 ELV-09 \* 3.000 LESF = 974.8100 IN. YHRP = .0000 IN.YO ELEVEN = 5.000 HACH = .600 ZHRP = 375.0000 IN.ZO EREF - 933.6988 IN. .000 7.500 DX PHI • SCALE = .0300 -5.000 DY .0.000 EETAO . PN/L = 5.88 GRADIENT INTERVAL = .00/ 12.00 ALPHA0 = 10.000 DCDL DCYN DCL DCD DCSL DCLN DCA DCLM DCY DZ DCN .04548 -.00500 .00415 .00059 -. t2269 -.01417 .00419 -.00014 .000 -. t2330 .00734 .00337 -.00016 -.10944 -.01427 .00229 -.00074 3.000 -.11025 .00495 .03702 -.80484 -.013E4 16500. -.00091 -.05542 7.500 -.09733 .00331 .03140 -.00345 .00292 -.08849 -.00055 .02616 -.00159 .00267 -.08649 -.07715 -.01207 .00255 -.07E09 .00151 15.000

PAGE 878

RN/L o	3.23	GRADIENT	INTERYAL =	.00/ 12.00

.00159

.00284

.00165

.00022

.02040

.01475

.00546

-.00195

.00035

+.00038

-.00225

-.80052

.00237

.00201

.00155

-.00016

-.00019

.00002

.00048

-.00013

-.04983

-.03046

-.00913

00344

-.00829

-.00576

-.00369

.00008

.00230

.00193

.00162

-.00018

-.00060

-.00033

-.00018

ALPHAO =	14.000										
	ÐΖ	DCM	DCA	DCFH	DCA	DCEL	DCYN	DCL	DCD	DCSL	DCLN
	. 300	07740	.01719	.05526	00189	.084 <b>01</b>	.00972	07926	80205	.00487	08023
	3.000	07145	.01466	.04628	00123	.00283	60648	07292	00265	.00263	00115
	7.500	08501	.01264	.03654	00014	.00151	00130	06514	00346	.00115	00162
	15.000	05528	.01165	.03001	.00182	.00031	00150	05546	00206	00007	00153
	30.880	03455	.01134	.02122	.00891	00977	00139	03628	.00264	03108	00116
	45.000	01950	.01156	.01963	.00738	00145	00104	02171	.00650	00166	00066
	69.900	01005	.01114	.00838	.09898	00152	00049	01246	.00839	00160	00011
	GRADIENT	.00163	00060	00259	.00023	00033	00026	.00173	000t8	00039	08817

TABULATED SOURCE DATA - CA20

PAGE 879

CA20 (747/1 01 S1) - (01 S1) D/S (097 - 807) (VGN097) ( 1; MAR 75 )

	REFEREN	ICE DATA						í	PARAHETRIC	DATA	
SREF = 8	e90.0000 <b>5</b> 0	D.FT. XHRP	- 1109.00	00 IN.XO				ALPHAC =	9.000	BETAC -	-5.080
	474.8100 IN			00 IN.YO				ELV-18 =	.000	E.V-08 -	3.000
	936.6800 IN	••		00 IN.ZO				ELEVON =	5.000	PACH =	-600
BREF = SCALE =	.0300	4. ZIAU	- 375.00					PHI =	7.500	tix =	.000
SUALE W	.0300							DY =	10.000	BETAO -	-5.000
			RN/L =	3.25 (	RADIENT INT	ERVAL -	.60/ 12.00				
ALPHAO =	10.000										
14211114	OZ	DCN	DCA	DCLH	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	.000	-,27892	.01524	.03734	00065	00058	.00077	27733	03343	08842	.00085
	3.000	25173	.01310	.03480	~.00397	00112	.00066	25018	03081	00099	#800 <b>0</b> *
	7.500	21948	.01120	.03228	00420	00154	.00002	21810	02708	00151	.00028
	15.000	17820	.00910	.03024	00297	00112	00020	17707	02199	60114	00000
	30.000	11574	.00584	.02482	08023	.00005	.08841	11499	01434	S1000.	.60039
	45.000	07793	.00415	.01964	.00224	.00059	.00022	07752	00946	.00051	.00011
	60.000	03947	.00323	.01428	.00917	.00184	00262	03943	00369	.00136	00293
	GRADIENT	.00787	00053	00057	00044	00013	00010	.00784	.000E4	08014	00008
			RN/L =	3.26	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	14.000										
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	OCSL	DCTM
	.000	21580	.01119	.05973	00063	.00522	.00094	21210	04135	.00527	08845
	3.000	19539	.01021	.05313	00041	.00472	00056	19294	03758	.08444	00169
	7.500	17323	.00926	.04799	00176	.00425	00088	17032	03293	. 00397	00167
	15.000	14864	.00932	.04178	00092	.08380	00092	13B14	02464	.00271	00152
	39.000	69807	.01316	.03170	.08543	00149	00172	09335	01095	00165	08131
	45.080	08364	.01271	.02270	.00574	00168	80140	06482	00307	00216	00090
	60.000	04183	.01235	.01467	.00831	00195	00109	04359	.00187	00217	00853
	GRADIENT	.08563	00025	00141	00016	30013	00019	.00553	.00112	00017	00015

GRADIENT

.00084

--00031

PAGE 880

CA20	1747/1	01	51)	- (6	1 51)	0/5	(698	-	(07)	
------	--------	----	-----	------	-------	-----	------	---	------	--

(VGN899) ( 11 MAR 75 1

-.00001

-.00001

	REFEREN	CE DATA								PARAMETRIC	DATA	
	£90.0000 SQ		XPEP		000 IN.XO				ALPHAC =	4.000 .000	EETAC = ELV-09 =	.080 3.000
	474.8100 IN	••	AHKL		080 IN.YO				ELEVON =	5.000	MACH =	.690
	936.6800 IN	l.	ZHRP	- 375.0	000 IN.ZO				PH! =	7.500	DX =	.000
SCALE =	.0300								DY =	10.000	EETAO =	-5.000
									D1 -	10.000	ECIAU -	-5.000
				RN/L =	3.29 (	GRADIENT IN	ITERVAL =	.00/ 12.00				
ALPHAO =	10.000											
	DZ	DC11		DCA	DCLH	DCY	DC9L	DCYN	DCL	DCD	DCSL	DCFN
	.000	110		.00244	.04673	14500	08016	08273	11667	01810	80253	00225
	3.080	106	91	.00108	.03879	.00099	.00801	00224	16547	01751	00037	00221
	7.508	093	554	.00071	.03202	.00123	.00842	00222	09225	01554	.00003	00228
	15.000	075	180	00034	.02674	00071	.08880	00112	07478	01353	.00659	00126
	30.000	647	187	00011	.02055	.80277	.00157	00123	04713	00842	.00133	00149
	45.000	030	151	.00010	.01532	.00400	.00157	00084	03005	00520	.00140	00110
	69.000	016	73	.00131	.01007	.08474	.00140	00042	01670	00161	.80138	00085
	GRADIENT	.003	124	00022	00193	00012	80000.	.00005	.00223	.00035	.00009	.00005
				RN/L =	3.27	GRADIENT H	NTERVAL =	.09/ 12.08				
ALFHAO =								PLANE	200	DCD	DCSL	DCLN
	DZ	DEN		DCA	DCLH	DCY	DCBL	DCYN	DCL.	00500	08874	00250
	.000	- Cat		.01031	. 05359	.08470	00011	00261	06472	00595	08074	00258
	3.000	651		.00922	.04537	.00428	00087	00267	06195			
	7.500	057	771	.00542	. 03653	.00413	00015	00272	05903	00579	00080	00230
	15.000	049	9 <b>20</b>	.00936	.02978	.00327	~.00055	00201	05000	- 00283	00102	00182
	30.000	031	146	.01075	.02129	.00515	00114	00173	03312	.00282	00153	00140
	45.080	017	759	.01159	.01444	.00725	- 00150	00143	01985	.00690	00181	80103
	60.089	089	364	.01213	.00852	.80871	00165	00092	01229	.00544	00164	-,00049
								00001	00000	- 00000	_ กกกก:	- nanna

-.00225

-.08807

-.00801

-.00081

.00089

-.00009

# TABULATED SOURCE DATA - CA20

CA20 (747/1 01 S1) - (01 S1) D/S (095 - 007)

(VCK099) ( 11 HAR 75 )

PAGE 881

			CV50	(747/1 0	1 511 - 101 1	311 0/5	(035 - 057)				_
	REFERE	NCE DATA						ı	PARAMETRIC	DATA	
LREF -	690.0000 S 474.8100 II 936.6900 II	n. Ymrf	.000	00 IN.XO 00 IN.YO 00 IN.ZO				ALPHAC = ELV-18 = ELEVON = PHI = DY =	8.000 .000 5.000 7.500 10.000	BETAC = ELV-08 = MACH = DX = BETAO =	.000 3.080 .600 .000 -5.880
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.080 7.500 15.000 30.000 45.003 60.000 GRADIENT	DCN27351247262175017709117960765503954 .00740	0CA .01129 .01060 .00937 .00756 .00403 .00375 .00422 00026	0CLM .04247 .03690 .03409 .03137 .02604 .02013 .01410 00108	DCY .00752 .00468 .00175 0068 00071 .00111 .00579 00076	OCBL 00600 00494 00397 00273 00057 .00021 .00038 .00027	DCYN0023G001920014700082 .00030 .0004100064 .00011	DCL 27132 24535 21562 17572 11701 07800 03967 .00733	DCD 03537 02550 02854 02330 01572 00995 00271 .00103	DCSL 0063D 0052D 00516 00283 00051 .00028 .00085	DCLN 00123 00103 00076 00039 .00037 00006
ALFHAO =	14.800 DZ .000 3.000 7.500 15.000 45.000 45.000 GRADIENT	DCN 21609 19520 17062 13643 09674 06269 03995	DCA .00840 .00770 .00763 .00791 .01236 .01199 .01228	0CLM .06539 .05680 .04965 .64245 .03231 .02295 .01520	.00777 .0525 .00218 .00585 .00657	DCBL .00020 .00137 .00214 .00269 00164 00197 00208	DCYN 00260 00238 00122 00130 00183 00187 00064	DCL 21171 19126 16740 13429 09526 06373 04174 .00586	000 04413 03976 03387 02533 01141 00353 .00225	DCSL 00043 .00075 .00157 .00229 00204 00212 00217 .00026	DCLN 00257 00254 00257 00191 00138 00078 00012

----

PAGE 852

CA20 (747/1 01 S1) - (01 S1) D/S (100 - 607)

(V6N16B) ( 11 HAR 75 )

### REFERENCE DATA

SREF		2690.0000	SO.FT.			1109.0800		
LREF	-	474.8100	IN.	YHRP	-	.0000	IN.YO	
BREF		938.6800	IN.	ZHRP		375.0000	IN.ZO	
CCALE	-	.0300						

## PARAMETRIC DATA

ALPHAC		4.880	BETAC	•	5.000
ELV-IB		.000	ELV-09	-	3.000
ELEVON	-	5.000	MACH	=	.603
PHI	ts	7.500	ĐΧ	-	.000
DY	•	10.000	BETAO	=	-5.080

#### .00/ 12.00 REI/L = 3.31 GRADIENT INTERVAL =

ALPHAO =	10.000 DZ .000 3.009 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCH 14320 12328 16016 07718 04919 03642 00819 .00569	00484 .00192 .00164 .00144 .00028 .00018 ~.00102	0CLH .08254 .06155 .04196 .03067 .02226 .01627 .01027	00Y .08564 .00512 .00520 .00423 .00384 .00484 .00359	DCBL 00633 00410 00229 00067 .00091 .00123 .00145	DCYN 00761 00613 00511 00398 00239 00162 .00017	DC1 14172 12174 02892 07626 04849 02999 00763	000 02089 01951 01578 01189 00226 00510 00243	DCSL 00756 00510 00314 00135 .00039 .00093 .00145 .00058	DCLN 00640 00533 00463 00599 00299 00181 00603
----------	-----------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------	----------------------------------------------------------------------------	---------------------------------------------------------------------------	------------------------------------------------------------------------	----------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------	----------------------------------------------------------------------------------	---------------------------------------------------------------------

## 3.28 GRADIENT INTERVAL - .00/ 12.00

ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 09859 07918 06376 04856 02995 01685 00803 .00330	0CA .01316 .01017 .00552 .00970 .01067 .01144 .01147	DCLM .09975 .07758 .05269 .03567 .02321 .01519 .00668 00622	0CY .80527 .00508 .80535 .00511 .00509 .00635 .00705	DCBL 00312 00249 00172 00125 00132 00154 00180	DCYN 00467 00450 00419 00322 00173 00136 00082 .00008	DCL 08914 07832 05393 04955 03164 01912 01057 .00335	DCD 00856 00805 00716 00225 .00311 .00702 .00919 .00022	DCSL 00415 00350 00259 00199 00170 00182 00197	DCLH 00'-77 00577 00565 00262 00136 00094 00005
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------	-------------------------------------------------------------------------------------	---------------------------------------------------------------------------	---------------------------------------------------------------------	-------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------------	---------------------------------------------------------------------	----------------------------------------------------------------------

60.000

GRADIENT

## TABULATED SOURCE DATA - CA20

(VGN101) ( 11 MAR 75 ) D/S (101 - 007) CA20 (747/1 01 S11 - (01 S1)

PAGE 893

.00077

.00147

.00025

#### PARAMETRIC DATA REFERENCE DATA 5.000 9.000 RETAC = ALPHAC = XMRP = 1109.0000 IN.XO SREF = 2690.0000 SQ.FT. 3.000 ELV-18 = .000 ELV-09 -YMRP = .0000 IN.YO 474.8100 IN. LREF = 5.000 MACH = .600 ELEVON = 375.0000 IN.ZO ZMRP = 936.6800 IN. BREF = .000 7.580 DX PHI .0300 SCALE = BETAD = -5.000 10.000 .00/ 12.00 GRADIENT INTERVAL . 3.25 RN/L = AlPHAG = 10.000DCFN DCYN DCL DCD DCSL DCBL DCLH DCY DCA DZ DCN -.01165 -.00476 -.27972 -.03903 -.00671 -.01065 .06951 .00629 .01014 .000 -.28225 -.00333 -.00895 -.03397 -.00825 -.00483 -.24973 .00464 .05224 .00991 3.000 -.25184 -.00186 -.02928 -.00573 -.00300 -.21647 -.00531 .00155 .00875 .04238 7.500 -.21826 -.00127 -.02308 -.00447 -.17446 .03507 .00039 -.00418 -.00203 -.17581 .00757 15.080 .00033 -.11443 -.01524 -.00165 -.00168 .00004 -.00149 .00486 .02693 30.000 -.11534 .0004t -.00972 -.0004B -00032 -.07611 .02088 -.00009 -.00055 .00364 45.000 -.07664 .00033 .00017 -.00301 .00030 .00022 -.03423 .00177 .01579 -.03424 .00299 60.000 .00038 .00935 .00128 .00054 .00049 -.00063 .00057 -.00350 .00845 -.00019 GRADIENT 3.27 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAO = 14.000 DCLN DCSL DCYN DCL CCD DCBL DCLM DCY DZ DCN DCA -.00522 -.22246 -.04545 -.00728 -.00693 .09766 .01144 -.00580 -.22685 .00972 .000 -.00435 -.19947 -.00434 -.00316 -.00527 -.04120 .00829 .07897 .00959 3.000 -.20352 -.03445 -.00139 -.00326 -.16977 -.00360 .06642 .00673 -.00054 -.17306 .00765 7.500 -.00227 -.02515 .00117 -.13312 .00328 .00168 -.00192 .84729 -.13526 .00780 15.000 -.00132 -.00118 -.08687 -.01153 .0003B .00069 .00983 03426 .00355 30.000 -.08708 -.00859 -.00360 -.00093 -.05926 -.00079 .02410 .00442 -.08073 -.05740 .01060 45.000 -.00053 .00284 -.00188 -.00170 -.00097 -.03911 .00703 .01198 .01573 -.03629

-.00490

-.00027

.00719

-.00063

i i

.00043

.00069

69,000

GRADIENT

GRADIENT

(V6N104) ( 1; HAR 75 ) D/S (104 - 007) CA20 (747/) 01 St) - (01 St) PARAMETRIC DATA REFERENCE DATA BETAC --5.000 4.000 ALPHAC = XHRP = 1109.0000 IN.XO ELV-09 -.000

3.30

-.08465

RN/L =

-.00074

-.00091

.00752

.00703

3.000 SREF = 2690.0000 SQ.FT. ELV-18 = .0000 IN.YO .600 MACH YMRP = 5.000 474.8109 IN. ELEVON = 10.000 375.0000 IN.ZO ZMRP -.003 ĐΧ 936.6900 IN. PHI BREF = -5.000 EETAO = .000 .0300 DY SCALE = .00/ 12.00 GRADIENT INTERVAL .

DCSL DOLN DCD ALPHAD = 10.000 DCL DCYN DCBL DCY DCLM .00311 .00812 DCA DCN -.22760 -.02746 .00447 -.01542 .00746 .06229 .00493 CESOO. .01248 -.02567 -,22891 -. 19441 .080 .00390 .08433 -.01241 .03924 .00220 .00332 .00848 -.19592 -.02315 -.16978 3.000 .00334 .00278 .02619 -.00297 .00254 .00659 .00195 -.01950 -.17122 7.500 -.14214 .08289 -.00540 .00148 .00203 .01914 .00548 .00125 -.14337 -.01370-.10578 15.000 .00221 .00029 -.00178 .01147 .00160 .06469 .00030 -.106ES -.00989 39.000 .00162 -.08440 .00002 -.60125 .00831 .00109 .00492 -.00108 -.00543 -,8B483 45.000 -.05210 SB000. -.00125 .00803 .00471 +00000+ .00543 -.00062 .00057 -.06210

> 3.28 GRADIENT INTERVAL = .00/ 12.00 RN/L =

.00095

DCFIN DCSL DCD DCL ALPHAD = 14.600 DCYN DCBL DCY -.00252 DCLH .01445 DCA -.03803 -.19102 DΖ OCN .00105 .01463 -.01013 -.00059 .02846 .68931 .01122 -.03535 -.15455 -.16294 .000 .00214 .01103 -.00942 E2000. .05037 .00512 -.03118 .00827 -.16665 -.13753 3,660 .00257 .08789 -.00728 .03785 .00326 +3000. .00302 -.02401 7.500 -.14859 -.12114 .00103 .00310 -.00125 .00025 .02624 .00801 -.00115 -.01469 -.12336 -.05224 15.000 -.08884 -.00117 .00354 .00023 .01680 .00951 -.00228 -.00998 -.09897 -.07931 30.000 -.00028 -.00228 .00412 .00123 .01079 :00195 .01038 -.07915 -.05708 -.00795 45.000 .00167 .00159 .00023 .00040 .00750 -.000B1 .00509 .00091 -,05731 .00701 60.000 .00019 -.00008 .00039 -.00651

-.00060

.00753

-.00015

TABULATED SOURCE DATA - CA28

PAGE 885

.00120

.00150

-,00003

.00454

.00357

-.00052

CA20 (747/1 Ot SI) - (01 SI) D/S (105 - 007) (VGN105) ( 11 MAR 75 )

-.02405

-.01771

.00152

-.11965

-.09324

.00942

.00226

.00232

-.00018

.00412

.60310

-.00059

		- D474						P	ARAMETRIC	DATA	
LREF -	REFERENCI 690.0000 50.1 474.8100 IN. 936.6800 IN. .0300		= 1109.000 = .000 = 375.000	D IN.YO				ALPHAC = ELV-1B = ELEVON = PH1 = DY =	8.000 .000 5.000 .000	BETAC = ELV-08 = MACH = OX = BETAO =	-5.000 3.000 .600 10.000 -5.000
			RN/L =	3.26	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .080 3.000 7.500 15.000 30.080 45.000 60.000 GRADIENT	OCN 34662 31847 29150 24594 18242 13893 08741 .00724	0CA .01758 .01562 .01361 .01216 .00966 .00848 .00699 00052	DCLM .02299 .01767 .01612 .01292 .01178 .08973 .00831 00087	DCY0219801749011580071000216000420025400138	DCBL .00264 .00049 00080 00192 00176 00220 00222 00042	DCYN .00370 .00372 .00313 .00265 .00250 .00147 .00060 00008	DCL 34441 31634 28944 24431 18133 13829 08728	DCD 04288 03992 03722 03073 02217 01977 00839 .00074	DCSL .00324 .00113 00004 00140 00130 00191 00208 00042	0CLN .00318 .00358 .00319 .00314 .00277 .00183 .00098 00001
ALPHAO =	14.080 DZ .080 3.000 7.500 15.008	DCN 34534 30114 27204 22593	DCA .01593 .01251 .00979 .00750	OCLM .06584 .04071 .03494 .02756	OCY 02454 01992 01356 00939 00343	DCBL .01274 .00950 .00811 .00564	DCYN .08485 .00456 .00359 .00322 .00282	OCL 33894 29522 26533 22104 15909	0CD 05809 06072 05632 04738 03389	DCSL .01354 .01042 .00873 .00722 .00563	DCLN .00163 .00210 .00149 .00152 .00151

-.00208

-.00099

.00146

.01529

.01162

-.00392

.00551

.00550

.00537

-.00080

30.000

45.000

60.800

GRADIENT

-.16259

-.12191

-.09476

	(	CA20 (747/1 0	1 51) - (01	S1) D/S	(106 - 007)	ı	CARNIG	61 ( 11 MA	R 79 )
REFERENCE DA	.TA						PARAMETRIC	DATA	
SREF = 2690.0800 SQ.FT. LREF = 474.8100 IN. BREF = 936.6800 IN. SCALE = .0300	YMRP =	09.0000 IN.XO .0000 IN.YO 75.0000 IN.ZO				ALPHAC = ELV-1B = ELEVON = PHI = DY =	4.000 .000 5.000 .000	BETAC = ELV-OB ** MACH = DX = BETAO **	-5.000 3.000 .600 .000
	RUN NO. 07	0 RN/L =	3.31 GRA	DIENT INTER	VAL = .0	12.00			
10.000 3.0001 16.000 7.5001 10.000 15.0000 10.000 30.0000 10.000 45.0000	2611 .013 1248 .011 0473 .009 8891 .006 5772 .007 .6253 .006 .6264 .006 .0399 +.000	10 .03518 49 .03078 25 .02459 38 .01939 55 .01453 20 .01012 49 ~.00357	DCY0058200703006390050400215000290014700006	DCSL 09111 00105 00137 00147 09101 09081 00004	DCYN .08045 .00028 .00006 .09019 .08052 .08072 .00025 00005	0CL 12525 11270 10479 08999 06797 05292 03677 .00402	DCD01055009600096400731004490023700019	DCSL 00101 00099 00134 00142 00101 00087 00085 00005	DCLN .00053 .00046 .00029 .00044 .00091 .00083 00083
REFERENCE DA	LTA.						PARAMETRIC	DATA	
SREF = 2699.0080 SQ.FT. LREF = 474.8160 IN. BREF = 935.6800 IN. SCALE = .0300	AHES =	09.0000 IN.XO .6000 IN.YO 75.0000 IN.ZO				ALPHAC = ELEVON = ELEVON =	4.000 .000 5.000 .000	8ETAC = ELV-08 = HACH = DX = EETAO =	-5.000 3.000 .600 10.000 -5.000
	RN	/L = 3.27	GRADIENT IN	TERVAL =	.00/ 12.00				
3.0001 7.5001 15.0001	CN 9CA 19769 .013 17109 .010 15688 .007 13512 .008	.02833 789 .02280 319 .01774	DCY 00728 00949 00703 00533	909L 08052 09117 09171 00204 00159	0045 .00058 .00052 .00052	DCL 19598 17023 15588 13415 10575	0C0 02137 01991 01937 01737	DCSL 00043 60105 00160 00192 00141	ECLN .08053 .60077 .00081 .00081

-.00237

-.00097

.00069

.00005

.01432

.01095

.00772

-.00311

.08471

.00395

.00319

-.00057

-.10655

-.08719

-.C6559

.00526

30.0D0

45.000

60.000

GRADIENT

-.00159

-.00142

-.00125

-.08016

.00097

.00025

.00085

.00001

-.10575

-.08655

-.06514

.00530

-.01385

-.01164

-.00825

.00025

-.00141

-.00125

-.00108

-.00015

.00109

.00105

## TABULATED SOURCE DATA - CA20

PAGE 897

(VGN107) ( 11 MAR 75 )

OCI	FF	ľΝ	CF	34	LT A	

## PARAMETRIC DATA

SREF LREF BREF SCALE	# #	2690.0000 SQ.FT. 474.8100 IN. 936.6900 IN. .0300	XHRP YHRP ZHRP	•	1109.0080 .0000 375.0000	IN.YO	ALPHAC ELV-18 ELEVON PHI DY	=	4.000 .000 5.000 .000	BETAC ELV-08 MACH DX BETAO		-5.000 3.000 .600 10.000 -5.000
-------------------------------	--------	-----------------------------------------------------------	----------------------	---	--------------------------------	-------	-----------------------------------------	---	--------------------------------	----------------------------------------	--	---------------------------------------------

CA20 (747/1 01 S1) - (01 S1)

D/S (107 - 007)

## RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00

	4.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000	PCN 18262 15728 13473 11896 09207 07309 05390 .00628	DCA .01365 .00899 .00495 .00440 .08517 .00551 .00469	DCLM .07569 .05160 .03230 .02637 .01900 .01413 .00966	PCY012320108100850005990020900029 .00071	009L .00519 .00466 .00462 .00293 .00169 .00110 .00158	DCYN .00386 .00242 .00104 .00065 .00092 .00100 .00162	DCL 19050 15478 13193 11649 09058 07225 05835 .00837	DCD 03093 02932 02779 02451 01726 01233 00942 .00041	DCSL .00597 .00511 .00415 .00295 .00186 .00131 .00192	0CLN .00249 .00122 .0004 .00014 .00048 .00070 .00119
--	-------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------------------------------------------	---------------------------------------------------------------------------

CA20 (747/1 01 S1) - (01 S1) D/S (108 - 807)

(VGN108) ( 11 MAR 75 )

## REFERENCE DATA

## PARAMETRIC DATA

		2690.0000 SQ.FT	. XHRP		1109.0000	IN.XO	ALPHAC	=	8.000	BETAC	=	-5.000
SREF			YHRP	_		IN.YO	ELV-18	-	.000	ELV-CB	; =	3.000
LREF	=	474.8100 IN.		-		-	ELEVON	=	5.000	MACH	=	.600
BREF	*	936.6900 IN.	ZMRP	=	375.0000	IN.20	PHI		.000		-	10.000
SCALE	=	.0300					DY	_	10.000		-	-5.000

## RN/L = 3.24 GRADIENT INTERVAL = .00/ 12.00

ALPHAC =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN33539307852811023809177611343003608 .00714	0CA .01798 .01630 .01469 .01261 .01037 .00905 .00755	DCLM .01789 .01468 .01592 .01576 .01619 .01454 .01390	DCY805250070700618005350021000015 .00244 .00002	DCBL 00500 00554 00563 00631 00479 00370 00239 00008	DCYN 00031 00048 00081 00045 .00086 .00021 .00044 00007	DCL 33342 30601 27935 23667 17671 13393 00808	000 04053 03741 03443 02693 02063 01441 00751	DCSL 00598 00592 00687 00689 00471 00361 00287 00009	001N .00074 .00068 .00055 .00069 .00069 .00065
----------	--------------------------------------------------------------------------------------------	-----------------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------------	-------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------

TABULATED SOURCE DATA - CA20

PAGE 883

-.01342

-.00995

-.00573

.00048

-.C00E2

-.00057

-.00092

-.000005

.00154

.00118

.00076

-.00015

-.10377

-.C8397

-.06078

.00545

.00191

.00105

.00059

-.00016

DATE 04 DEC	C 75	TABULI	HED SOUNCE	DAIR - CHE	U						
			CAZO	(747/1 01	SI) - (01 S	S1) D/S	(108 - 007)		(VGN10	8) (11 H/	R 75 )
	REFEREN	CE DATA							PARAMETRIC	DATA	
Gref = 26	690.0000 <b>SQ</b>	.FT. XHRP	= 1109.00	00 IN.XO				ALPHAC =	8.080	BETAC =	-5.000
	474.8100 IN			00 IN.YO				ELV-IB .	-030	ETA-08 =	3.000
	936.6810 IN			00 IN.ZO				ELEVON =	5.000	HACH =	.600
CALE =	.0390							PH! =	.000	6X =	10.000
LALE -	.0350							DY =	10.000	EETAD =	-5.000
			RN/L =	3.26 0	RADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAO =	14.680					DAG!	DCYN	DC1.	DCD	DCSL	DCLN
	DZ	DCN	DCA	DCLM	DCY	.00030	.00042	30649	05047	.08039	.0003
	.000	31201	.01547	.04948	00711	.00030	00842	27480	05567	.08031	0805
	3.000	28010	.01245	.03556	00594	.00035	00018	24884	05175	.00029	0003
	7.500	25397	,00999	.03243	00723	.00055	.08013	21053	64422	.80025	0000
	<b>[5.</b> 988	21507	.00805	.02929	00622	.00065	.00089	15406	03183	.00177	.000
	30.000	15718	.00542	.02516	00316	.08210	.00124	11540	02263	.00234	.0061
	45.000	11745	.00595	.01995	00141	.00226	.00127	09721	01585	.00261	.001
	60.008	08946	.00572	.01442	.00012 20002-	.00220	08887	.09753	.00114	00001	088
	GRADIENT	.00759	00072	00215	85002		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100100		*	
			CA20	(747/1 01	S11 - (01 !	51) D/S	(109 - 607)	•	EVENTO	19) ( 11 H	NR 75 )
	REFEREN	ICE DATA							PARAMETRIC	DATA	
REF = 2	690.0000 50	LFT. XGRP	= 1109.00	00 IN.XO				ALPHAC =	4.000	BETAC =	.000
	474.8100 IN		00	00 IN.YO				ELV-18 =	000.	ELV-09 =	3.000
	936.6800 1	• •	= 375.00	00 IN.ZO				ELEVON =	5.000	MACH =	.600
CALE =	.0309							PHI =	.000	DX -	10.000
SALE -	.0200							DY =	.000	BETAO =	-5.000
			RN/L =	3.27	TAI THEIDARE	ERVAL =	.00/ 12.00				
ALPHAO =	10.000						DCYN	DCL	DCD	DCSL	BCLN
	DZ	DCN	DCA	DCLH	DCY	OCBL.		20301	02562		.002
	.000	20438	.01002	.64837	00315	00181	.00251	18076	02432		.003
	3.000	18224	.00744	.03142	00369	08289	.00220		02222		.001
	7.500	15278	.00614	.02270	00301	00211	.00131	16138			.001
	15.000	13971	.00538	.01702	00271	00189	.00127	13852	01895	00164	.001

.01122

.00853

.00531

-.00330

.00480

.00462

.00491

-.00050

- .10452

-.08353

-.06085

.00545

15.000

30.000

45.000

60.000

GRADIENT

-.00164

-.00164

-.00098

.00003

-.000:47

-.00077

-.00104

-.00009



ALPHAO = 10.080

DZ

.000

3,000

7.500

15.000

30.000

45.080

60.000

GRADIENT

TABULATED SOURCE DATA - CA20

CA20 (747/1 01 S1) - (01 S1)

OCLH

.01996

.01615

.01665

.01445

.01329

.01070

.00880

-.00040

DCA

.01659

.01484

.01339

.01165

.00979

.00871

.00747

-.00043

DCN

-.33973

-.31458

-.28941

-.24449

-.18114

-.13928

-.08776

.00662

DCY

~. 18064

-.00208

-.00299

-.00300

-.00101

-.00031

.00095

-.00030

PAGE 889

(YGN109) ( 11 HAR 75 )

DCSL

-.00554

-.00581

-.00563

-.00492

-.00329

-.00246

-.00122

.00000

DCD

-.04265

-.04001

-.03716

-.03099

-.02181

-.01544

-.00723

.00072

DCLN

.00389

.00323

.00279

.00223

.00203

.00128

-00070

-.00014

REFERENCE DATA		PARAMETRIC DATA
SREF = 2690.0000 SQ.FT. XHRP LREF = 474.8100 IN. YHRP BREF = 936.6800 IN. ZHRP SCALE = .0300	= 1109.0000 IN.X0 = .0000 IN.YO = 375.0000 IN.ZO	ALPHAC = 4.000 BETAC = .000 ELV-18 = .000 ELV-08 = 3.000 ELEVON = 5.000 MACH = .600 PHI = .000 DX = 10.000 DY = .000 BETAO = -5.000
	RN/L = 3.28 GRADIENT INTERVAL =	.00.12.00
ALPHAO = 14.000 DZ DCN	OCA         DCLH         DCY         DCBL           .00827         .07778        00491         .00471           .00396         .05784        00455         .00434           .00172         .03720        00365         .00402           .00242         .02491        00247         .00349           .00789         .01638         .00219        00097           .00538         .00781        00248        00194          00638         .00781        00095         .00173          00084        00535         .00017        00009	OCYN         DCL         OCO         DCSL         DCLN           .00291        17626        03543         .00527         .00168           .00251        15593        03503         .00482         .00138           .00183        13313        03142         .00434         .00080           .00144        11096        02517         .00374         .00056          00012        0396        01530        00097         .00012          00024        07678        00959        00194         .00023          00163        05592        00840         .00208         .0016          00014         .00571         .00056        00012        00012
	CA20 (747/1 01 S11 - (01 S1) D/S	(110 - 007) (V6N110) ( 11 HAR 75 )
REFERENCE DATA		PARAMETRIC DATA
SREF = 2690.0000 SQ.FT. XHRP LREF = 474.8100 IN. YHRP BREF = 936.6900 IN. ZHRP SCALE = .0300	= 1109.0000 IN.X0 = .0000 IN.Y0 = 375.0000 IN.Z0 RN/L = 3.28 GRADIENT INTERVAL =	ALPHAC = 8.000 EETAC = .000 ELV-1B = .000 ELV-0B = 3.000 ELEV-1B = .000 MACH = .600 PHI = .000 DX = 100.000 DY = .000 GETAO = -5.000

0/5 (189 - 007)

DCYN

.00285

.00217

.60177

.00140

.00143

.00059

.00648

-.60014

DCBL.

-.00523

-.00628

-.00803

-.00524

-.00359

-.00254

-.00132

.00003

DCL.

-.33745

-.31236

-.28732

-.24280

-.18009

-.13769

**→.09773** 

TARKS ATED SOURCE DATA - CA20

-.05473

-.05095

-.03603

.00281

30.000

45.000

60.000

GRADIENT

10.000

10.000

10.000

PAGE 090

-.00259

-.00013

.00023

-.00122

-.00054

.00023

.00065

.00093

-.00003

.00043

.00032

-.00004

-.00131

-.00070

.00024

.01948

.01460

.01021

-.00276

.00627

.00625

.00522

-.00028

-.00219

-.00071

.00074

.00304

-.05128

-.03555

DATE 04 DEC	75	TABULAT	'ED SOURCE D	ATA - CXSC	7						
			CA20	(747/1 01	S1) - (01 S	() O/S :	1110 - 607)		(VGN110	Ó LILMA	R <b>7</b> 5 1
	REFERENC	E DATA						F	ARAMETRIC	DATA	
		•	· 1109.000					ALPHAC =	9.000	BETAC -	.080
	90.0000 50.			0 1N.YO				EFA-18 -	.000	ELV-08 =	3.000
	74.8100 IN.	1,50		D IN.20			•	ELEVON =	5.000	HACH =	.600
	38.6800 IN.	ZERCP	- 3,5,000					PH1 =	.000	DX =	10.000
SCALE =	.0380							DY =	.000	EETAO =	-5.000
			RN/L •	3.29 G	RADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	14.008					DATA.	DCYN	DC1.	DCD	DCSL	DCLN
	DZ	DCN	DCA	DCLH	DCY	DCBL .00184	.09273	31746	05465	.00245	.00221
	.000	32367	.01407	.05310	09105 09331	.80194	.00281	29952	05222	.00255	.00225
	3.000	30558	.01209	.04067 .03200	00293	.00229	.00180	25557	05463	.00255	.60119
	7.500	23119	.60882	.02885	09329	.00267	.00196	22014	04728	.00306	.C0125
	15.000	22502	.68746	.02213	00180	.00335	.00195	15794	03344	.00373	.00108
	30.000	16134	.00577	.01646	00190	.00335	.00193	11947	02981	.60371	.00105
	45.000	12172	.00551	.01232	00100	.00276	.00199	09325	01743	.00315	.00127
	60.000 GRADIENT	09470 .00845	.00554 00070	00274	08022	.00805	00013	.00837	.00135	.00003	00014
			CV50	(747/1 01	SI) - (01 S	i) D/S	c111 - 607:	1	(VGN11	1) (1) W	JR 75 )
		o= 0.174							PARAHETRIC	DATA	
	REFEREN	CE DATA								RETAC =	.000
SREF = 20	690.0000 50	.FT. XMRP	- 1109.60	80 IN.XO				ALPHAC =	4.000	BETAC = ELV-09 =	3.000
	474.8100 IN		.00	88 IN.YO				ELV-IB =	.603	MACH =	-600
	936.6800 IN		= 375.00	00 IN.ZO				ELEVON =	5.880 .880	DX =	.000
SCALE =	.0300							PHI =	10.000	- OAT23	-5.000
SUMPLE -	,,,,,,,							DY =	10.000	CTING -	-5.005
		RUN NO.	. 0/0	RN/L =	3.33 GRA	DIENT INTE	RVAL = .	09/ 12.00			
		DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
ALPHAO	DZ	12284	.00856	.05317	80387	00574	00106	12246	01291	00583	03805
10.000	.080 3.000	10975	.00030	.03806	00243	00456	00288	10932	01205		00128
10.000		10118	.80549	.03163	00338	00390	00148	10077	01118		0007B
10.000	7.500	02626	.00529	.02535	00331	00304	00100	08504	00878		00046
10.000	15.000	- 05673	-00623	.01948	00219	00185	.00003	05483	00507	00162	.00035

TABLEATED SOURCE DATA - CA20

.00430

GRADIENT

-.00026

-.00426

PACE 891

cian	1797/1	01 4	S11 -	COL	S1)	D/S	(112 -	- 0071
------	--------	------	-------	-----	-----	-----	--------	--------

(VSN112) ( 11 MAR 75 )

.00028

			CVS0	(747/1 0	1 51) - (01	S1) D/S	(112 - 607)		(VSNI 1	S) (11 W	R 75 )
	REFEREN	ICE DATA		•					PARAMETRIC	DATA	
			4400 000					ALPHAC =	4.080	BETAC =	.000
	690.0000 SQ		= 1169.000	D IN.YO				ELV-18 =	.000	ELV-09 *	3.000
	474.8160 IN			0 IN.ZO				ELEVON =	5.000	HACH =	.600
	936.6900 IN	. ZMRP	<b>375.00</b>	10 IM.20				PHI =	.080	ex =	10.000
SCALE =	.0300							DY =	10.608	= CATES	-5.000
			RN/L =	3.28	GRADIENT IN	ITERVAL =	.00/ 12.00				
ALPHAO =	10.660							200	ĐCĐ	DCSL	DCLN
	ÐZ	DCN	DCA	DCLH	DCY	OCBL.	DCYN	DCL	02399	00885	00027
	.000	17278	.00611	.04165	00341	00667	+.00145	17122	02224	00594	00071
	3.000	15423	.00461	.02628	03316	00573	-,00173	15268	02117	00526	00071
	7.500	14416	.00392	.02270	00392	00511	00131	14265		08914	00013
	15.000	12572	.00380	.01784	00405	00405	08085	12447	01809 01412	00275	.00056
	30.080	10051	.00338	.01457	00269	00280	.00008	09957	01142	00203	.00052
	45.000	08391	.00320	.01131	00127	00209	.00016	08319	00833	00122	.00052
	60.080	06541	.00308	.00871	.00018	00129	.00030	06496	.00035	.00020	00001
	GRADIENT	.00369	00028	00239	00005	.00020	.80002	.00369	.00000	.00000	-,40001
			RN/L =	3.24	GRADIENT IN	ITERVAL =	.60/ 12.00				
ALPHAO =	14.000						DAV.	DCŁ	DCD	DCSL	DCLN
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	15409	03599		.00210
	.000	15821	.00236	.06195	00787	00163	.00176		03289		.00061
	3.000	14077	.00110	.04334	00632	00843	.00052	13626	03091	.88843	00031
	7.500	. 12539	.00033	.02930	00537	.08050	08020	12175			08885
	15.000	11169	.00114	.02546	00533	.00116	.08024	10875	02554		EZ080.
	30.080	08586	.00299	.01895		.00184	.00085	08484	01787		.00035
	45.080	06939	.00403	.01421	00193	.00175	.00121	05830	01888		.80097
	60.000	05727	.08444	.00972		.00182	.00146	05554	00955		00031
	COADICAT	00030	- 60026	00426	.00032	.00028	00025	.00424	.00079	.80921	

TABULATED SOURCE DATA - CARD

CA20 (747/1 01 S1) - (01 S1) D/S (113 - 007)

(VGN113) ( 14 MAR 75 )

			CACU	(1777)							
		_						F	ARAHETRIC	DATA	
	REFERENC	E DATA									
								ALPHAC =	8.000	BETAC =	.000
SREF = 2	2690,0000 50.	FT. XHRP		OX.NI 00				ELV-18 =	.000	ELV-09 =	3.000
LREF =	474.8100 IN.	YMRP	00	OP IN.YO				ELEVON =	5.000	MACH =	-600
EREF =	936,6800 IN.	ZMRP	= 375.00	80 IN.ZO					.000	ox =	.080
	.0390							* * * * * * * * * * * * * * * * * * * *	10.000	EETAO =	-5.000
SCALE =	.0350							Dy =	10.000	ETING -	2.000
				RN/L ■	3.26 GRAS	DIENT INTER	VAL = .0	12.00			
		RUN NO.	0/0	HIN/L -	3.20 0.00	<b>212.00</b>					OCLN
			DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	
ALPHAD	DZ	DCM	.01608	.05444	.00472	00739	00251	21463	04312	0077B	00065
14.000	.080	21869		.05320	.00333	00468	- 00284	19498	03993	00523	00162
14.000	3.000	19882	.00553		.00893	00261	00223	17291	03483	00307	00153
14.000	7.500	17621	.00803	.04557	**	00054	00169	14518	02809	00039	02090
14.000	15.000	14757	.00787	.03958	00192		.00047	10099	01735	.00139	.00014
14.000	30.600	10217	.00760	.03057	00262	.00132		07895	00955	.80224	.00053
14.000	45.000	07115	.00789	.02339	00142	.00202	.00116		00464	.00279	.00117
	60.000	65092	.60771	.01634	08040	.08242	.00181	05127		.00092	00011
14.080		.00551	00026	00245	00052	.00062	.00004	.00551	.00111	-00000	
	GRADIENT	.00001									
			CARD	(747/1	01 511 - 101	St) D/S	(114 - 00	7	(VSN11	4) (055	P 75 )
			CAEU	(/4//1	0. 3.,						
	REFEREN	CE DATA							PARAMETRIC	DATA	
	1001 61001								0.000	BETAC =	.000
	2690,0000 50	.FT. XMRP	- 1109.0	00.NI 000				ALPHAC =	8.000		3.000
0				000 IN.YO				ELV-18 =	.608	EFA-68 =	
lref =	474.8100 IN	•		000 IN.ZO				ELEVON =	5.000	MACH =	.600
BREF =	936.6880 IN	. ZHEP	<del>-</del> 375.0	000 114.20				2H1 =	.000	DX =	10-000
SCALE =	.0300							DY =	18.600	= OATES	- <b>*</b> .000
				3.24	GRADIENT IN	FRVAL =	.00/ 12.00	I			
			RN/L =	3.67	GENERAL THE						
ALPHAO :	= 10.080						POW	DC1.	DCD	DCSL	DSLN
WET TOUR	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN		04355	01371	00103
	.000	32562	.01320	.02028	.60324	01332	00339	•		01244	00078
	3.000	30174	.01252	.01695	.08084	01213	00284	25932	84867	+	00053
			.01199	.01753		01093	00250	27355	03516	01109	
	7.500	27569	.01691	.01728	•	00991	+.00191	23289	02999	08901	00025
	15.000	23455		.01743		+.00507	00083	17436	02087	00509	.00040
	30.000	17534	.00972	-		05441	~.00019	13284	01434	08423	.00053
	45.000	13331	.00895	.01554		00245	.00054	08558	00701	00233	.00025
	60.000	08649	.00913	.01468			.00012	.00552	.00299	.00034	.00008
	GRADIENT	.00659	00017	00033	00056	.00033	31000.	100000			

TABULATED SOURCE DATA - CA20

PACE 893

.00141

.00011

			CAZO	(747/1 0	1 513 - (01	51) D/S	(114 - 007		(V6N) 11	+1 ( 05 SE	P 75 )
	REFERENC	E DATA							PARAHETRIC	DATA	
	55	es VVD0	= 1109.000	n 1N YO				ALPHAC =	8.000	BETAC =	.000
	2690.0000 50.			D IN.YO				ELV-IB =	.000	ELV-09 *	3.000
REF =	474.8100 IN		•	0 IN.ZO				ELEVON =	5.000	MACH =	.600
REF =	936.6800 IN	. ZHRP	= 375.080	10.20				PHI =	.000	DX =	10.080
CALE =	.0300							DY =	10.000	BETAO -	-5.000
			RN/L =	3.22 6	RADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO .	14.080				DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	ÐZ	DCN	DCA	DCLM	.00388	00768	00291	27239	05776	00316	08897
	.000	27828	.08985	.04937	.00366	00765	00289	24870	05326	60619	08144
	3.000	25419	.00849	.03779		00392	00198	22144	04803	03428	00097
	7.500	22648	.00896	.03321	00071		00122	18692	03994	00169	00084
	15.000	15:03	3647	.02985	00222	00144	00122	13136	02728	.00131	.00015
	30.000	13405	.00531	.02535	00318	.00120	.08150	05502	01834	.00244	.00093
	45.009	89683	.00519	.02119	00170	.00214		05767	01228	.00378	.00140
	60.000	06253	.68447	.01468	00181	.00333	.00227 .00013	.08574	.00129	.88051	.00001
	GRADIENT	.00865	00038	00208	00052	.00049	1000.0	*****			
			CA20	(747/1 01	S11 - (01	\$1) D/S	(115 - 007	1	(VGNI 1	5) (11 H/	IR 75 )
	REFEREN	CE DATA							PARAMETRIC	DATA	
		1000		00 IN VO				ALPHAC .	4.888	EETAC =	5.000
QFF .	2690.0000 50			OD IN.XO				ELV-IB =	.000	ELV-09 =	3.000
R:F =	474.8100 IN			80 IN.YO				ELEVON =	5.000	MACH =	.600
BREF =	936.6800 IN	. ZMRP	• 375.00	00 IN.ZO				PHI =	.000	DX =	10.000
ECALE -	.0300							DY =	.080	EETAO =.	-5.000
			RN/L =	3.26	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHA0	= 10.000					567	DCYN	DCL	DCD	DCSL	DCLN
	DZ	DCN	DCA	DCLM	DCY	DCBL	-,00145	21312	02356	00557	0002
	.000	21399	.01371	.05672	.00900	+.00948	08040	18546	02233	00381	.0003
	3.000	18750	.01039	.03740	.06893	09785		16733	02112	00631	.0010
	7.500	16845	.00925	.02263	.00349	00540	00003		01800	08991	.0018
	15.080	14009	.00643	.01921	.00171	60461	.00045	13909	01339	00232	.0015
	30.000	10520	.00495	.01284	.00102	00255	.00112	10446 06414	01335	00180	.0014
	45.000	08465	.00451	.00924	.00094	00203	.00112	06414	- 00000	00113	חחונים.

.00000

-.00072

.00427

-.00357

.00409

-.00071

60.000

**GRADIENT** 

-.06183

.08593

-.00136

.00040

-.06160

.00596

.00120

.00018

-.00672

.00033

-.00113

(VGN115) ( 11 HAR 75 ) CA20 (747/1 01 S1) - (01 S1) D/S ([15 - 097)

REFERENCE	DATA
THE PROPERTY OF	DU: V

#### 4.000 ESTAC = 5.000 ALPHAC = SREF = 2690.0000 50.FT. XMRP = 1109.0000 IN.XO 3.000 ELV-08 = 67.V-1B = .000 .8000 IN.YO LREF = 474.8100 IN. YM72 = MACH = .600 ELEVEN = 5.000 ZMRP = 375.0000 IN.ZO EREF = 938.6EDO IN. .000 ĐΧ 10.000 PHI = SCALE = .0300 -5.000 .000 EETAO -

#### RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00

ALFHAD =	14.600 DZ .000 5.000 7.500 15.000 50.000 95.000 60.000	BCN 20069 16722 14403 11030 09579 05702 05431 .00737	DCA .01754 .01017 .00549 .005410 .00549 .00599 .00593 00155	DCLH .69473 .66288 .04526 .03072 .01755 .01126 .00716	00198 .00531 .00559 .00177 .00124 .00059 .00040	DCBL 00293 00173 00043 .00099 .00151 .00148 .00169 .00032	00154 00023 .00029 .00097 .00146 .00178 .00235 00814	DCL 19997 16481 14168 11578 08433 05524 05387	DCD 03153 03061 02551 02464 01641 01137 00845 .00027	005L 00237 00174 00034 .00169 .00169 .00167 .00240	DCLN .00218 .00019 .00028 .00071 .00105 .00137 .00103 00022
----------	--------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	----------------------------------------------------------------------------	-------------------------------------------------------------------	-----------------------------------------------------------------------------------	---------------------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------	-------------------------------------------------------------------------------------

CAED (747/1 01 St) - (01 St) D/S (116 - 007)

(VGN116) ( 11 MAR 75 )

PARAMETRIC DATA

PARAMETRIC DATA

## REFERENCE DATA

	2690.0000 50		1109.0000 IN		ALPHAC = ELV-18 =	8.000 000.	ELV-03		5.000 3.000
LREF =	474.8109 ft		NI 0889.		ELEVON =	5.000	MACH	-	.688
EREF ⇒	935.6900 II	n. ZMRP	 375.0000 IN	1.20	PHI =	.000	ĐΧ	•	10.000
SCALE =	.0300				DY =	.000	BETAO		-5.000

#### RM/L = 3.26 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 ED.000 45.000 GRADIENT	003 - 54838 - 72394 - 28831 - 24027 - 17547 - 13523 - 08828 - 00800	0CA .01607 .01467 .01324 .01182 .00541 .00633 .00659 06037	OCLM .02705 .02259 .01877 .01709 .01389 .01091 .00767	DCY .01300 .00926 .00591 .00363 .00176 .00195 .00162 00694	909L 01441 01278 01081 00811 00512 00352 00147 .00848	00019 .00019 .00046 .00080 .00085 .00182 .00115 .00147	DCL 34526 32157 26523 23567 17444 13550 08813 .00754	DCD 04467 04180 03702 03008 02120 01546 00535	005L 01415 01250 01054 00754 00422 00326 00119	0010 .00269 .00267 .00297 .00165 .00209 .00174 .00170
----------	----------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------------	-------------------------------------------------------------------------------	-----------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------	---------------------------------------------------------------------	----------------------------------------------------------------------------

## TABULATED SOURCE DATA - CA20

(VENUIS) / 11 MAR 75 1

PAGE 895

		CV50	(747/1 01	S1) - (01	S11 D/S	(116 - 007)		EVENT 16	5) ( 11 MA	R 75 )
								PARAMETRIC	DATA	
REFER	ENCE DATA							-		
	SO.FT. XHRP	= 1169.00	80 IN.XO				ALPHAC =	8.000	BETAC -	5.080
			00 IN.YO				ELV-18 =	-009	ELV-09 =	3.000
			00 IN.ZO				ELEVON =	5.000	MACH =	.600
	IN. Lica						PHI =	.000	DX =	10.000
SCALE * .0300							DY =	.000	BETAO =	-5.000
		RN/L =	3.26 0	RADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO = 14.000							000	DCD	DCSL	DCLN
OZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL 77007	06515	00780	.00028
.000	33289	.01585	.06958	.01750	00764	00161	32693 29569	06035	00501	.08064
3.000	3015I	.01298	.04763	.01222	80501	00059		05394	00286	.00016
7.500	26648	.01085	.03910	.00841	00262	00049	26119	04569	00029	.00094
15.000	22109	.00805	.03126	.09308	08951	.08084	21647 15503	03208	.00193	.00130
30.00	15819	.00638	.02327	.00112	.00156	.00172	11625	02260	.00257	.00134
45.000	11827	.00619	.01693	.00856	.00217	.00192	08853	0168B	.00291	.00177
60.000	08979	.08591	.01169	.00055	.00239	.00242	.00867	.00149	.00057	00002
GRADIENT	.00977	-,00065	00279	00118	.00065	.00014	,00001	.00115	.0000	155552
		CYSO	(714771 D	1 51) - (01	S1) D/S	(117 - 007)	•	(VGN11	7) (11 H/	UR 75 )
		CALU	(,,,,,,,							
REFEI	RENCE DATA							PARAMETRIC	UATA	
		- 1100 0	000 IN.XO				ALPHAC =	4.000	EETAC =	5.000
SREF = 2690.0000			000 IN.YO				ELV-IB =	.000	ELV-08 =	3.000
LREF = 474.8100			000 IN.20				ELEVON =	5.000	MACH =	.600
BREF = 936.6800	IN. Armo	- 375.0	000 1.4420				PHI =	.000	Dit =	.000
SCALE = .0300							DY -	10.000	BETAO =	-5.000
	RUN NO	. 0/0	RN/L =	3.29 GR	ADIENT INTE	RVAL = .	00/12.00			
		· -					00.	DCD.	DCSL	DCLN
ALPHAO OZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD 01364	01274	00451
10.080 .00	014616	.01192	.09317	00085	01176	00665	14691	01441	00947	00485
10.000 3.00	01267 <b>7</b>	.00772	.05649	00018	00853	00553	12619	01148	00712	00222
10.000 7.50		.00685	.04388	00205	00663	60342	10456 08542	00851	00501	00139
10.000 15.00		.00663	.03133	00235	00469	00224	06300	00051	00270	80000.
10.000 30.00		.60647	.02086	00239	00267	00039	05031	00235	00173	.00041
10.000 45.00	004995	.00642	.01592	00111	00177	.00010	03605	.00007	00062	.00084
10.000 60.00		.00633	.01036	00000	00078	.60844	.00547	.00032	.00033	.00031
GRADIEN	r ,08544	00054	00656	00018	,00067	.00044	.00011	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

,\_\_\_

CA20 (747/1 01 S1) - (01 S1) D/S (118 - 007) (VGN118) ( 11 MAR 75 )

PARAMETRIC DATA

#### REFERENCE DATA

#### 4.000 BETAC = 5.000 ALPHAC = SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO .000 ELV-09 = 3.000 ELV-18 \* LREF = 474.8100 IN. YMRP = .0000 IN.YO ELEVON = MACH # .600 5.000 ZMRP = 375.0000 IN.ZO GREF = 936.6800 IN. 10.008 .000 DX PHI = SCALE = .0308 10.000 EETAD = -5.000

## RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00

ALPHAO ~	10.000										
112,1010	DZ	DC31	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.080	20193	.00763	.07683	00483	01410	00521	20019	02755	01479	00269
	3.000	16037	.60379	.05575	00399	01105	00467	17829	02759 .	01170	00267
	7.500	15759	.80337	.04086	00393	08898	00354	15577	02485	00938	00194
	15.000	12975	.00371	.02300	00383	00549	00227	12744	01870	00578	ODII1
	39.000	10300	.00335	01742	00302	08419	00079	10202	01459	00426	00005
	45.000	08846	.00288	.01273	08220	09300	00010	08565	01217	00299	.00643
	60.000	05728	.00233	.00926	00155	00157	.00073	06666	00939	00142	.00099
			00053	08479	.00011	.00059	.00023	.00595	.00049	.00071	.00011
	GRADIENT	.00585	-,00003	00715	-00011						

#### RN/L \* 3.25 GRADIENT INTERVAL \* .00/ 12.00

ALPHAO =	14.008 DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL 1077D	DCD 03460	DCSL 01117	.00202 0CLN
	.000	19601	.01321	.11240	00745	01133	00074	19339			.00212
	3.000	17082	.00535	.09203	00655	08745	08868	16585	03608	00739	
	7.500	14243	60021	.05239	00463	00355	00092	13815	03465	00377	00001
	15.000	11695	.80886	.03420	08394	00134	00014	11369	02746	00133	.00019
	30.000	05496	.00220	.02042	00292	.00102	.00134	08296	01642	.00132	.00106
	45.000	06737	.00332	.01462	00140	.00152	.00180	06617	01308	12100.	.00138
	6D.000	65654	.00400	.00918	.00059	.00153	.00212	05583	88979	.00200	.00169
	00.000	055534	- 00175	- 60789	.60638	-00101	00003	.00729	.00002	.00097	00027

ORIGINALI PAGEI IN OF POOR QUALITY TABULATED SOURCE DATA - CA20

.00575

.00562

-.00042

45.000

60.000

GRADIENT

-.11067

-.08335

.00859

.02250

.01592

-.08465

-.00220

-.00091

-.00028

.00053

.00170

.00105

.80069

.00155

.00039

-.10877

-.08223

.00643

-.02120

-.01471

.00167

.00067

.00202

.00111

.00053

.00109

-00012

PAGE 897

CA20 (747/1 01 SI) - (01 SI) D/S (119 - 007)

(VGN119) ( 11 MAR 75 )

#### PARAMETRIC DATA REFERENCE DATA XMRP = 1109.0000 IN.XO ALPHAC = 8.000 BETAC = 5,009 = 2690.0000 SQ.FT. 474.8100 IN. YMRP .0000 IN.YO ELV-IB # .000 ELV-09 \* 3.000 ELEVON = 936.6800 IN. ZMRP 375.0000 IN.20 5.000 MACH .600 BREF = PHI SCALE = .0300 .000 DX 10.000 10.000 BETAD -5.000 3.23 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHA0 = 10.000 DCBL. DÇYN DCLH DCY DCL DCD DOSL DCLN DZ DCN DCA -.01972 -.33675 .000 -.34012 .01037 .05408 -.00106 -.08848 -.04885 -.02090 -.00493 -.31872 .01029 .04433 .00022 -.01738 -.00742 -.31567 -.04521 -.01B40 -.00429 3.000 .03043 -.0001B -.01385 -.00553 -.28039 -.03484 -.01460 -.00394 7.500 -,26248 .01680 15.000 -.21956 .01651 .02442 -.00151 -.01089 -.00389 -.21805 -.02778 -.01140 -.00193 30.000 -.15784 .08962 .02025 -.00171 -.00695 -.00165 -.15711 -.81794 -.00713 -.00842 .00849 .01699 -.00048 -.08511 -.00077 -.13315 -.81485 -.08517 .00013 45.000 -.13370 -.00235 -.09345 60.000 -.09363 .00720 .01374 .00030 .00071 -.00917-.00219 .00111 .01052 .00008 -.00315 .00010 .00078 .00840 .01035 .00190 .00084 .00025 GRADIENT GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.22 ALPHAO = 14.000 ĐΖ DCN DCA DCLH DCY DCBL DCYN DCL DCD DCSL DCLN .00351 -.01678 -.00770 -.30857 -.05530 -.01814 -.00341 -.31545 .08643 .080 .01032 -.28146 -.05248 -.01382 -.00336 3.000 -.28821 .00747 .05717 .00284 -.01260 -.00660 .60142 -.00876 -.00480 -.24511 -.05392 -.00988 -.00253 7.500 .00698 .05086 -.25087 15.000 -.20564 .00584 .03764 -.00078 -.00459 -.00315 -.20118 -.84311 -.00520 -.00195 30.000 -.14598 .00592 .02855 -.00325 -.00090 -.00024 -.14307 -.02957 -.00093 -.00001

PAGE 899

-5.000

.000

.600

.000

-5.000

CA20 (747/1 01 S1) - (01 S1) D/S (120 - 007)

(VGN120) ( 11 MAR 75 )

ELV-09 =

MACH =

EETAO -

DΧ

PARAMETRIC DATA

.080

5.000

.090

10.000

4.080 BETAC -

ALPHAC =

ELV-IB =

ELEVON =

Pal =

#### REFERENCE DATA

## SREF = 2690,0000 SQ.FT. XHRP = 1109,0000 IN.XO LREF = 474,8100 IN. YHRP = .0000 IN.YO SREF = 936,6800 IN. ZHRP = 375,0000 IN.ZO SCALE = .0300

	0

RN/L =	3.26	GRADIENT	INTERVAL -	.00/ 12.00
1047 C -	3.60	0.00	11112	

DCLN
.00075
.00074
.00083
.00085
.00145
.00151
.00135
.00001
. (

## RN/L = 3.24 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.000 02 .000 3.000 7.500 15.000 50.000	9CN 10174 05494 09193 07422 05909	OCA .01222 .00912 .00726 .00608 .00633	DCLH .05121 .04000 .03397 .02950 .02244	DCY 00753 00638 00419 00274 .00079	0001. 80152 .00164 .00101 .00050 00014	DCYN .00320 .80157 .00061 .00074 .00120	0CL 10169 68463 68126 07349 05790 04555	0CD 01276 01170 01278 01205 +.00791 00502	0091 .00225 .00197 .00112 .00057 .00015	DCLN .00274 .00113 .00034 .00060 .00120
	95.000 95.000 60.000 GRADIENT	04541 04546 02546 00249	.00615 .00602 00064	.01665 .01097 00345	.00255 .00474 .00845						

TABULATED SOURCE DATA - CA20

-.00039

.00525

GRADIENT

-.00136

-.00037

.02014

-.00005

PAGE 899

CA20 (747/1 D1 S1) - (01 S	51) D/S (121 - 607)
----------------------------	---------------------

(VGN121) ( 11 MAR 75 )

ru, r	CLEISE	BAIN

## PARAMETRIC DATA

.00519

.00009

.00012

-.00009

LREF =	935.6900 SQ 174.8100 IN 935.6900 IN .0300	, үнэр	00	00 IN.XO 00 IN.YO 10 IN.ZO				ALPHAC = ELV-IB = ELEVON = PHI = DY =	8.000 .000 5.000 .000	BETAC = ELV-08 = HACH = DX = EETAO =	-5.000 .000 .000 .000
			RN/L =	3.25	GRADIENT INT	ERVAL =	.60/ 12.09				
					•						
ALPHAO =	10.000			500 M	DCY	DCBL.	DCYN	DCL	DCD	DCSL	DCLN
	DZ	DCN	DCA	DCLM			88896	28220	03662	00801	.00043
	.000	28427	.01294	.03339	00033	80796		26002	03398	00804	.00013
	3.000	26197	.01169	.03160	00209	00794	00127		03075	00761	00011
	7.500	23518	.01024	.03037	00267	00748	00143	23339			.00033
	15.000	19534	.00863	.02745	00274	00532	00078	19387	02542	00636	
	30.000	14059	.00544	.02354	.00000	00414	.00042	13557	01807	00400	.00113
	45.000	10434	.00520	.01828	.00221	00273	.00101	10366	01300	00252	.00147
	60.009	06869	.00417	.01286	.00423	00151	.00147	06836	00782	00123	-00171
	GRADIENT	.00650	00036	00039	00039	.00007	00086	.00546	.00078	.00805	00007
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00. 12.00				
ALPHAD =	14.000										
	DZ	DCN	DCA	DCLM	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
	.000	23348	.01056	.05412	00978	00177	00017	22910	04623	00176	.00026
	3.000	21396	.00865	.04722	00212	00111	00101	28970	<b>~.</b> 04336	00132	00071
	7.500	19363	.00755	.04359	00358	60071	00055	18971	03950	~.00054	00847
	15.000	16473	.00711	.03932	00343	00020	0000B	16155	03295	00022	00003
	30.000	11671	.00672	.03102		.08070	.00078	11487	02172	.80087	.00058
	45.000	08614	.00764	.02355		.00023	.00116	08528	01401	.00050	.00107
	60.000	06634	.0069B	.01514		. 00020	.00194	06906	00927	.00067	.00183
	20.000			00.77	00027	03011	- 00005	00519	.0000	.00012	00009

## TABULATED SOURCE DATA - CA20

(VGN122) ( 11 MAR 75 ) n/S (122 - 007) ---- (mail of 61) - (0) 61)

			CV50	(747/1 0	1 51) - (0) 5	(1) D/S	(155 - 681)		(10:11		
	REFERENC	T DATA							PARAMETRIC	DATA	
LREF =	690.0000 SQ. 474.8100 IN. 936.6800 IN.	FT. XMRP		0 IN.XO 0 IN.YO 0 IN.ZO				ALPHAC = ELV-1B = ELEVON = PHI = DY =	4.003 .009 5.000 .000 10.000	BETAC = ELV-DB = MACH = DX = BETAO =	.000 .000 .600 .000 -5.000
	•		RN/L =	3.33	GRADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAD =	10.000 DZ .68D 3.690 7.500 15.000 90.000 45.000 60.000 GRADIENT	DCN13939125791159509937074120563003794 .00305	BCA .80180 .00042 00000 00034 00021 00012 00023	DCLM .04477 .03362 .02932 .02411 .01853 .01393 .00896 00190	0CY 00063 00093 00196 00153 00033 .00155 .00331 00018	009L 00541 00437 00378 00245 00100 00053 00011	DCYN 00178 00173 00096 00036 .00070 .00118 .00145	DCL13759123951141909693072930554003735 .00304	000 02243 02143 02014 01741 01320 00939 00671	DCSL 00564 00460 00387 00248 00065 00031 .00015	DCLN 00081 00095 00019 .00007 .00066 .00125 .00146 .00009
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
ALFHAD =	14.000 0Z .000 3.000 7.500 15.000 30.000 45.000	DCN 09359 07649 07695 07339 05603 04820 04030	DCA .00324 .00329 .00252 .60580 .00729 .00726 ,00812	0CLH .05082 .03929 .03430 .02850 .02865 .01601	DCY 09670 00269 00119 00007 .00179 .00313	DCBL 00897 00038 00035 00152 00199 00175 00202	DCYN .00279 00002 00043 00059 .00041 .00077 .00125	DCL 08198 07693 07554 072Ci 05904 04662 04107	000 01710 01570 01510 01213 00721 00422	00037 00044 00161 00173 00151 00163	DCLN .00294 .00008 00034 00018 .00095 .00117 .00170
		COOCE	00005	- 60212	.08870	.00008	08040	.00082	.00028	00002	

.08070

-.00212

.00005

.00085

GRADIENT

.00008

PAGE 900

## TABULATED SOURCE DATA - CA2D

PASE BOI

CAPO	(747/1	01	SI)	-	(01	51)	D/S (123 - 007)	
------	--------	----	-----	---	-----	-----	-----------------	--

(VGN123) ( 11 MAR 75 )

			ÇAZU	.,7,,,	, 51, 10, 5						
	REFERENC	C DATA						F	PARAMETRIC	DATA	
LREF =	690.0800 SQ. 474.8160 IN. 936.6800 IN. .0380		= 1109.000 = .000 = 375.000	0 IN.YO				ALPHAC = ELV-18 = ELEVON = PHI = DY =	0.000 .000 5.000 .000	BETAC = ELV-09 = MACH = DX = PCTAO =	.000 .000 .600 .000
			RN/L =	3.28	GRADIENT INTE	ERVAL =	.00.12.00				
ALPHAO =	10.000 DZ .000 3.000 7.580 15.000 30.000 45.000 60.000 GRADIENT	DCN29013264742364119727141931055406989 .00709	0CA .00981 .00908 .00935 .00749 .00588 .00472 .00357 00019	DCLH .03971 .03434 .03311 .02921 .02449 .01897 .01301 08083	DCY .00558 .80384 .00142 .00026 .00058 .00172 .00270 ~.00058	DCBL 01261 01125 00979 00766 00467 00274 00084 .00037	DCYN 09370 00295 00241 80151 08003 .08075 .00141 .00017	DCL 28742 26229 23427 19558 14080 10476 06846 .00702	DCD 84072 03703 03282 02689 01865 01368 00652 .00104	DCSL 01306 01159 01005 00780 00460 00257 00058 .00040	DCLN 00146 00095 00067 00018 .00078 .00122 .00153
ALPHAD =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000	DCN23777217561950518271115250267107012	DCA .00909 .00653 .00605 .00542 .00581 .00735 .00904	DCLH .85971 .05168 .04628 .04078 .03148 .02352 .01599	00098 00018 .00228 .00557	DC8L 00723 00480 00298 00054 00074 00016 00175	DCYN 00240 00242 00169 00071 .00075 .00096 .00007	DCL 23267 21269 19072 15919 11323 08592 07023 .00554	DCD 04959 04630 04132 03410 02255 01364 00019	00525 00334 00101 .00089 .00003	DCLN 00057 00119 00110 00017 .00051 .00077 .00135 00006

-.00174

-.00026

.08564

GRADIENT

CA20 (747/1 01 S1) - (01 S1) D/S (124 - 807)

(VGN124) ( 11 MAR 75 )

	REFERENC	E DATA						I	PARAMETRIC	DATA	
LREF -	690.0000 SQ. 474.0100 IN. 935.6300 IN. ,0300	YMRP		D IN.XO D IN.YO D IN.ZO				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.000 .000 5.000 .000 10.000	BETAC = ELV-OB = MACH = DX = EETAO =	5.000 .000 .600 .000
			RN/L =	3.25	GRADIENT INT	ERVAL -	.00/ 12.00				
ALPHAO ®	10.080 DZ .000 3.008 7.500 15.000 30.000 45.000 GRADIENT	80N 15775 15331 11593 09511 05050 05191 07077 .00054	DCA .00316 .0082 .00040 .0003 0027 0024 0016 00035	DCLM .87741 .05711 .03987 .02890 .01959 .01444 .00977 00505	DCY .00131 .00077 00101 00114 08077 .00055 .00208 00032	OCPL01045008110064300418002110011300225 .00052	DCYN 00549 00497 00280 00160 .00024 .00087 .00135 .00049	0CL 15591 13535 11414 09367 06751 05108 03481 .00552	000 02429 02321 01971 01648 01218 00925 00632	DCSL 01142 00885 00882 00439 0089 0009	0CLN 00457 00548 00164 00065 .00166 .00139
ALPHAO •	14.600 0Z .000 3.000 7.500 15.000 50.000 45.000 60.000 GRADIENT	0CN 12348 10770 09167 07889 06089 04163 04163	DCA .01113 .00571 .00260 .00465 .00551 .005677 00106	DCLM .09998 .07289 .04928 .03515 .02350 .01654 .21129	DCY 00753 00365 00170 00159 .00099 .00099	DCBL 00718 00399 00164 00107 00036 00016	DCYN00045001450015900055 .00055 .00135	DCL 12250 10588 09965 07747 06038 04865 04179	000 01907 02652 01937 01453 00937 00960	DCSL 00765 00421 00193 00117 00019 .00017 .00050	DCLN .00130 00044 00114 00028 .00072 .00135 00154 00031

## TABULATED SOURCE DATA - CARO

PAGE 903

.00018

.00742

.00131

.00110

CASO	(747/1	Đì	S1)	-	(01	S1)	D/S (	125	- 007)
------	--------	----	-----	---	-----	-----	-------	-----	--------

(VGN125) ( 11 HAR 75 )

	REFEREN	CE DATA						ī	PARAMETRIC	DATA	
SREF = 2	2690.0000 SQ	.FT. XHRP	= 1109.000	0 IN.XO				ALPHAC =	8.800	BETAC =	5.000
	474.8100 IN	• • • • • • • • • • • • • • • • • • • •		0 IN.YO				ELV-18 =	.000	ELV-09 =	.000
	936.6900 IN	-		0 IN.ZO				ELEVON =	5.000	MACH =	.600
SCALE =	.0300	4 40	_ 0,0,0					PH1 =	.000	DX ·	.000
SUALE -	.0200							DY	10.000	BETAD -	-5.000
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000							D.D.	nen	DOSL	DCLN
	DZ	DCN	DCA	DCLH	DCY	DCBL.	DCYN	DCL	DCD 04232	01728	00435
	.000	29366	.00980	.05351	.00262	01586	00739	29073	03920	01522	00317
	3.000	26872	.00850	.05118	.00194	01444	00577	26613	03264	01852	00225
	7.500	23642	.80834	.04171	.00098	01194	00439	23428	02671	00923	00122
	15.000	19540	.00733	.03395	.00050	00888	00280	19370	01789	00529	.00031
	30.000	13567	.00593	.02554	.08001	00527	00061	13563	01274	00311	.08037
	45.000	10069	.06471	.01941	.00095	00322	.00039	09938	00767	00102	.00037
	60.000	06474	.00363	.01327	.00208	00125	.00120	06438 .00749	.00126	.00071	.00027
	GRADIENT	.09760	08006	00284	08022	.00055	.00039	.00745	.00100	.00071	100017
			RN/L =	3.23	GRADIENT INT	ERVAL =	.00/ 12.09				
ALPHAD =	14.000						5000	DCL	DCD	DCSL	DCLN
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	26408	05436	01523	00333
	.000	26939	.01114	.09742	.00889	01397	00691	23520	05027	01078	00327
÷	3.000	24039	.00812	.07335	.00514	00957	00578		04450	80864	00207
	7.500	21218	.00784	.05923	.00365	00514	00355	20759	03586	00310	00112
	15.080	17442	.00653	.04591	.00853	00273	00193	17082	02365	00310	.00039
	30.000	12234	.00813	.03324	08080	00006	.00039	12019	01541	.00074	.00079
	45.000	09089	.00677	.02384	.00076	.00053	.00094	68532	01015	.60391	.80147
	60.000	06930	.08654	.01597	.00247	.00043	.00162	06941 00742	.00131	.00110	.00018
			00000	_ TO O 14 PM	COUNTY		. ភាពពម្	. 001/92	*CION*	***************************************	-00010

-.00043

-.08494

.00752

GRADIENT

-.00052

.00102

30.000

45.000

60.000

GRADIENT

-.GE019

-.04037

-,02286

.00394

10.000

10.000

10.000

(VGN126) ( 11 MAR 75 ) D/C /125 - 018)

		CARD	(747/1 DI	S1) - (01	St) D/S (	125 - 018)		LAGUISE	, (11100	
		4					s	ARAMETRIC	DATA	
REFERE	ENCE DATA						•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•
SREF = 2690.0000 S LREF = 474.8100 S BREF = 935.6800 S SCALE = .0300	SQ.FT. XHRP IN. YHRP	00	000 IN.XO 100 IN.YO 100 IN.ZO				ALPHAC = ELEVON = FHI = DY =	.000 5.000 .000	BETAC = ELV-OB = MACH = DX = EETAO =	-5.000 3.000 .600 .000
	run no.	0/0	RN/L =	3.28 GRV	DIENT INTERV	/AL = .0	10, 12.00			
ALPHAO DZ 10.000 .000 10.000 5.000 10.000 7.500 10.000 15.000 10.000 30.000 10.000 45.000 10.000 60.000 GRADIENT	09308 08256 06710 04196 02699 01333	DCA .00898 .00642 .00659 .00633 .00650 .00672 .00699	BCLM .04425 .03376 .02863 .02246 .01935 .01048 .00609 00201	00048 00447 00251 .00002 .00309 .00401 .00460	969L 98200. 93500. 28500. 44100. 14000. 92000. 14000.	0078 .00031 .00058 .00080 .00093 .00059 .00024 00008	DCL 10642 09276 09245 05718 04245 02775 01435 .60312	DCD 01056 00933 00764 00542 00088 .00193 .00457	8051 .00579 .00373 .00275 .00159 .00053 00025 00091	DCLN 00071 00007 .00033 .000567 .00060 .00069 .00008
		CAZO	(747/) 01	S1) - (01	S1) D/S	(127 - 018	)	CVENTE	71 til#/	IR 75 )
				•				PARAMETRIC	DATA	
refer	RENCE DATA									
SREF = 2890.0000 LREF = 474.9100 EREF = 925.6900 SCALE = .0300	IN. YHRP	<b>.</b>	OX.NI 0000 CY.NI 0000 OX.NI 0600				ALPHAC = ELEVON = PHI = DY =	4.000 .000 5.000 .000	ELV-08 = MACH = DX = PETAG =	-5.000 3.000 .600 10.000
SCHES - TODGE										
SCALE - 10001	RUN NO	. 0/0	RN/L =	3.34 GF	RADIENT INTER	RVAL	00.51 100.			DCLN

.00269

.00395

.00520

.08844

.01151

.00800

.00512

-,00175

.00628

.00839

.00646

-.00024

-.00023

-.00100

-.00043

-.04087

-.02354

.00393

-.00072

.00240

.00045

.00014

-.00000

.00007

-.00020

-.00100

-.00541

.00017

.00010

## TABULATED SOURCE DATA - CA20

PAGE 905

CA20 (747/1 01 51) - (01 51)	D/S (128 - 018)	(VGN128)	( 11 MAR 75 )
------------------------------	-----------------	----------	---------------

			0.20	.,,				•			
	REFERENC	CE DATA							PARAHETRIC	DATA	
LREF =	2690.0000 SQ. 474.8180 IN. 936.6880 IN.	. YMRP	01	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-IB = ELEVON = PHI = BY =	4.600 .000 5,000 .000	BETAC = ELV-09 = MACH = DX = BETAO =	-5.000 3.000 000.00 20.000
		RUN NO.	0/0	RN/L =	3.32 GR/	DIENT INTER	IVALC	10/ 12.00			
ALPHAO 10.000 10.000 10.000 10.000 10.000 10.000	DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN16413144691274210321069330469402744 .00481	DCA .01203 .01005 .00906 .00744 .00605 .00557 .00467 00038	0CLH .02760 .01808 .01409 .01002 .00710 .00516 .00431	DCY 00595 00405 00162 .00042 .00295 .00414 .00593 .00057	008L .00727 .00517 .00370 .00219 .00099 .00015 00079	DCYN .00026 .00049 .00061 .00071 .00062 .00035 .00028	DCL 16372 14424 12706 10293 06834 04719 02783 .00480	000 01665 01523 01320 01060 00591 00267 00017	005L .00720 .00517 .00375 .00228 .00109 .00021 00072	DCLN 00101 00042 00004 .00032 .00044 .00033 .00041
			CA20	(747/1 0	1 511 - (01	S1) D/S	(129 - 018	•	(VGN12	ai (11 m	UR 75 )
	REFEREN	CE DATA							PARAMETRIC	DATA	
SREF = 8 LREF = BREF = SCALE =	2690.0000 SQ 474.8100 IN 936.6800 IN .0300	. YHRP	<b>-</b> .01	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-18 = ELEVON = PHI = DY =	4.000 .000 5.000 .000	= 2ATEB = 80-V13 = MACH = 0X = 0ATEB	.000 3.000 .600 .000
			RN/L =	3.31	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO ≃	10.000 02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 15259 14244 12943 11211 08203 08335 04652 .00307	DCA .00211 .00147 .00160 .00185 .00174 .00170 .00191	00187 .04187 .03178 .02518 .01968 .01266 .00836 .00453	DCY .00082 .00095 .00123 .00132 .00294 .00351 .00361	DCBL 00285 00161 00130 00899 00869 00101	DCYN 00014 00006 00006 00024 00003 00024	DCL 15063 14053 12774 11073 08109 09289 04625 .09304	000 02492 02220 02050 01734 01253 08933 00221	DCSL 00205 00160 00128 00057 00054 00100 00149	001N .00022 .00025 .00025 .00025 .00014 00000

PAGE 985

-.01759

-.01269

-.00927

-.00571

.00049

-.00123

-.00082

-.00111

-.00150

.00004

.00017

ES000.

.00010

.00000

-.00000

-.11629

-.02437

-.05401

-.04634

.00321

-.00005

-.00010

-.00026

.00001

.00013

-.00130

-.00085

-.00111

-.00147

.00003

.00162

.00187

.00285

.00355

.00384

.00010

.01976

.01426

.00946

.00638

.66332

-.00144

.00311

.00288

.00216

.00199

.00242

-.60009

-.13848

-.11758

-.02529

-.06465

-.04653

.00324

7.500

15.000

30.000

45.000

69.000

CRADIENT

ATE G4 DEC T	75	TABULAT	ed source (	DATA - CAR	)					( ),44	
			CA20	(747/1 01	51) - (01 5	1) D/S	(129 - 018)		(VGN129	ELL MAS	75 1
	REFERENCI	T DATA						1	PARAMETRIC	DATA	
	REFERENCE	LUAIN						_		D##10 -	.000
FF • 2690	0.0800 60.1	FT. XHRP	- 1109.00	0X.NI 00				ALPHAC =	4.000	ELV-CB =	3.000
	4.8100 IN.	YHRP	00	0Y.NI 80				ELV-IB =	-000	HACH #	.E00
	6.6800 IN.	ZHRP	= 375.08	00 IN. <b>ZO</b>				ELEVON =	5.000 .000	DX *	.000
ALE =	.0020							DY =	-000	EETAO =	.000
			RN/L =	3.29 G	RADIENT INTE	RVAL =	.00/ 12.00				
LPHAD = 1	4.680				200	DCBL.	DCYN	DCL	DCD	DCSL.	DCLN
	DZ	OC:1	DCA	DCLH	DCY 08093	.08891	.00069	02610	01764	.00056	.000
	.000	06781	.00371	.03954	08034 	.08845	.00065	~, 08919	01988	.00059	.000
	3.000	09113	.60314	.03578	00009	.00059	.00062	08910	01872	.00072	.000
	7.500	09093	.00339	.03109		.00083	.08051	08155	01535	.00095	.000
	15.000	08284	.00483	.02510	.00038 .00235	.08072	.00039	05428	00920	.60079	.000
	30.000	06459	.0053	.01713		.00072	.00045	05166	00537	E3000.	.000
	45.000	05143	.00723	.01200	.00265	.00075	.08059	04272	00353	.00102	.800
	60.000	04233	.00691	.80795	.00335	.0802	00001	00037	00013	.00002	000
. 6	GRADIENT	00039	00003	60112	.08012	.00000	00001	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
			CAEB	(747/1 0	1 51) - (01	S1) D/S	(130 - 018	>	(V6N13	10) (11 to	R 75 )
	REFEREN	CE DATA							PARAMETRIC	DATA	
							•	ALPHAC =	4.000	BETAC =	.000
ÆF ≖ 269	90.0000 50	.FT. XHEP		OX.NI DBC				ELV-IB =	.000	ELV-09 =	3.00
	74.8189 IN			009 IN.YO				ELEVON =	5.000	MACH =	.60
	35.6800 IN	. ZHRP	<b>= 375.</b> 0	000 IN.ZO				PH1 =	.000	DX =	10.00
CALE =	.0300							DY =	.000	EETAO =	.00
			RN/L =	3.30	GRADIENT IN	rerval =	.00/ 12.80	)			
ALFHAO =	10.000					0.004	DCYN	DCL.	DCD	DCSL	DCL
	DZ	DCN	DCA	DCLM	DCY	DCBL.	-	16112	02454		.00
	.009	16293	.00381	.02984	.00084	00181	00032	15032	02330		.00
	3.000	15208	.00316	.02309	.00125	00162	00029	13691	02038		.00
	5.000	17010	00311	.01976	.00162	00154	08025	[359]	0=055		-

TABULATED SOURCE DATA + CA28

PAGE 907

.000

3.000

.600

.020

10.000

CARD	(747/1 01	St) -	(OI SI)	D/S (130 - 018)
------	-----------	-------	---------	-----------------

(VGN(30) ( 11 MAR 75 )

ELV-0B =

HACH =

DX =

- OATES 000.

PARAMETRIC DATA

ΩY

		DAT	

#### 4.000 BETAC -ALPHAC = SREF = 2690.0000 SQ.FT. XHRP = 1109.0000 IN.XO ELV-IB = .000 .0000 IN.YO LREF = 474.8100 IN. YMRP = ELEVON -5.000 ZMRP = 375.0000 IN.ZO 936.6800 IN. PHI = .000 SCALE = .0300

## RN/L = 3.31 GRADIENT INTERVAL = .00/ 12.00

	14.000 OZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 12034 11864 11196 09674 07258 05510 04547 .00115	DCA 00409 00465 00369 00173 .00172 .00373 .00423	OCLM .03319 .03227 .02628 .02094 .01460 .01049 .00725	0CY 60182 00205 00234 00197 .00082 .00164 .00209 00007	008L .00024 .00103 .00197 .00270 .00220 .00101 .00157	DCYN .00156 .00159 .00179 .00169 .00124 .00099 .00099	DCL 11577 11399 10774 09352 07054 05533 04514 .80110	000 03309 03321 03067 02479 01589 00996 00690 .00034	005L .00061 .00191 .00235 .00303 .00249 .00197 .00176	DCLN .00145 .00138 .00126 .00099 .00067 .00044 .00055
--	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------------------	----------------------------------------------------------------------------	--------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------------

## CA20 (747/1 01 SI) - (01 SI) D/S (131 - 018)

(VGN131) ( 11 MAR 75 )

PARAMETRIC DATA

#### REFERENCE DATA

LREF =	2690.0000 SQ.FT. 474.8100 IN. 926.6880 IN. .0300	XMRP YMRP ZMRP	•	109.0000 .0009 375.0000	IN.YO	Alphac Elv-1e Elevg: Phi Dy	=	4.600 .008 5.600 .600	ELV-09 MACH DX EETAD	- -	000. 000.5 000. 000.05
--------	-----------------------------------------------------------	----------------------	---	-------------------------------	-------	-----------------------------------------	---	--------------------------------	-------------------------------	--------	---------------------------------

## RN/L = 3.29 PRADIENT INTERVAL = .00/ 12.00

ALPHAD =	18.009								000	000	DELN
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	
	.000	16018	.80755	EB190.	00057	00118	08035	17875	02385	00127	00014
	3.000	-,16711	.00826	.01593	00042	00694	0002t	16556	02235	090 <b>57</b>	00000∍
		15133	.00543	.01193	00073	00029	00013	14897	02093	000039	.00003
	7.500	•		.00989	00013	08078	.00000	12691	01839	00076	.00014
	15.080	15815	.00422		· · ·	00069	.00013	69271	01275	00065	.00024
	30.000	09352	.00354	.00567	.00145			07032	085+3	00065	00002
	45.000	07089	.00293	.00425	.00146	00053	00013				00037
	60.000	05155	.00259	.00351	.00216	00076	00051	05124	00839	-,00054	
	CRADIENT	.00392	+.00027	00128	80001	.00004	.00003	.00391	.00039	.00024	.00002

CA20 (747/1 01 St) - (01 St) D/S (131 - 018)

(VGN131) ( 11 MAR 75 )

								P	ARAMETRIC	DATA	
LRSF = 47	REFERENCE 30.0000 SQ.F 74.8100 IN. 35.6800 IN. .0300	T, XHRP YHRP		10 1N.XO 10 IN.YO 10 IN.ZO				DA = EFA-1B = EFA-1B =	4.000 .000 5.000 .000	= CAT29 ELV-09 = HACH = OX = ECTAO =	.000 3.000 9.000 0.000
			RN/L =	3.30	GRADIENT INTE	RVAL =	.00/ 12.00	-			
	14.000 DZ .009 3.009 7.500 15.000 50.000 60.000 GRADIENT	908 19307 13914 12755 16917 07652 08657 04947 .00221	BCA 09462 00595 00527 00305 00067 .00228 .00465 00007	DCLM .02659 .02437 .02048 .01614 .01099 .00821 .90631 00082	DCY 00362 00335 00342 00404 00277 00012 .00160 .00002	DCBL 00037 0005 .00072 .00209 .00324 .00153 .00095	DCYN .00109 .60116 .00159 .00179 .00059 .00059	DCL 13848 13357 12249 10422 07409 05957 04918 .00216	DCD 03529 03593 03597 02913 01916 01147 00725 .00847	DCSL 00029 .00023 .00104 .00299 .00103 .00105 .00015	00001 00100 00100 00100 00000 15000 65000 100001
			CAEO	1747/1 0	I S11 - (01 !	S11 0/5	(132 - 018)	)	(V6N13	2) (11 M/	UR 75 1
	000000000000000000000000000000000000000		<b>5</b> 1225					1	PARAMETRIC	DATA	
LREF - 4	FEFERENC 90.0000 SQ. 974.8100 IN. 935.6800 IN. .0300	FI. XHEP VHEP	.00	80 IN.XO 80 IN.YO 80 IN.ZO		·		ALPHAC = ELV-18 = ELEVON = PHI = DY =	8.000 .000 5.000 .000	= 2AT38 = C0-VJ3 = H2AM = XG = OAT33	.000 3.000 .000 .000
			RN/L =	3.29	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.080 7.500 15.000 30.000 45.000 60.000 GRADIENT	904 30354 28128 25311 21269 16399 08411 .00570	00A .01285 .01183 .01095 .00991 .00763 .00649 .00606 00025	OCLM .03330 .02950 .02591 .01527 .01644 .00547 00097	0CY .00066 .00118 .00163 .00175 .00300 .00345 .00432	DCBL 00230 00194 60171 00142 00121 00137 00168	9CYN -00009 -00005 -00013 -00009 -00007 -00027 -00020 -00003	DCL 30126 27906 25116 21119 15289 11555 08389 .00554	000 04007 03719 03317 02717 01921 01230 00654 .60692	DCSL 00226 00192 00170 00141 00120 00140 00129 .00007	001N .00094 .00027 .00017 .00020 .00017 00003 .00003

TABULATED SOURCE DATA - CA20

PAGE 939

CY50	(747/1	01	51)	-	(01	517	U/S	1136 -	010,

(VGN132) ( 11 MAR 75 )

PARAMETRIC DATA

 	 	-	
	VCE		

		WEL FLOTAGE GOVE	•••								
							ALPHAC =	8.000	BETAC	-	.000
SREF		2690.0800 SQ.FT.	XMRP	*	•••		ELV-18 =	.000	ELV-03		3.000
LREF		474.8180 IN.	YHRP	•		IN.YO	ELEVON =	5.000	HACH	•	.600
	_		ZHRP	=	375.0000	IN.ZO	<b>**</b> : * * * * * * * * * * * * * * * * * * *	ממח.	DX	=	.000
		_					* * * * *		BETAD		.000
BREF	-	.0300 IN.	ZHRP	*	375.0000	IN.ZO	PHI =	000. 000.	DX BETAO		

# RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.080 DZ .000 3.080 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN25454236612139219317130350989007557 .00539	9CA .00276 .00194 .00196 .00139 .00201 .00274 .00317	DCLM .04940 .04201 .03592 .03046 .02142 .01533 .01020	DCY001150012100129001770003500034 .00113	008L 00141 00088 00057 .00069 .00180 .00222 .00253	00103 .00103 .00126 .00160 .00165 .00164 .00164	DCL 24765 23005 20804 17806 12697 09692 07410	000 0590 05936 04995 04995 02959 02127 01521	005L 00115 00061 00024 .00106 .00220 .00255 .00292	00121 .00121 .00125 .00136 .00136 .00105 .00107
----------	--------------------------------------------------------------------------------------------	-----------------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------	-------------------------------------------------------------------------	-------------------------------------------------------------------	--------------------------------------------------------------------	-------------------------------------------------------------------	-------------------------------------------------------------------------	-------------------------------------------------------------------

# CA28 (747/1 01 511 - (01 51) D/S (133 - 018)

(VGN133) ( II HAR 75 )

PARAMETRIC DATA

## REFERENCE DATA

LREF = 474	.8100 IN. YMR	강P = 강P =	1109.0000 .0000 375.0000	IN.YO	DY ELEVOI PHI ALPHAI ALPHAI	<b>=</b>	.000 5.000 -000 .000	ELV-09 MACH DX ESTAO		000.00 000.01 000.01
------------	---------------	--------------	--------------------------------	-------	-----------------------------------------	----------	-------------------------------	-------------------------------	--	----------------------------

# RN/L = 3.32 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.880 DZ .080 3.080 7.500 15.000 30.000 45.000 60.800 GRADIENT	DCN32525303992759423308167371252008858 .00655	DCA .01903 .01389 .01270 .01092 .00935 .00598 .00572 50031	00LM .01875 .01582 .01371 .01137 .00867 .00637 .00451	0007 .00028 .00055 .00093 .00128 .00244 .00329 .00428 .00009	DCBL 00199 00170 00105 00105 00105 00125 .00007	DCYN 00028 00025 00021 00015 00006 00026 00012	DCL 32292 30179 27355 23143 16628 12451 08933 .00650	DCD 04163 03911 03541 02972 02064 01485 00977 .00083	0051 00201 00171 00145 00105 00109 00109 00125 .00007	.00007 .00005 .00004 .00004 .00005 00005
----------	--------------------------------------------------------------------------------------------	-----------------------------------------------	------------------------------------------------------------------------------------	----------------------------------------------------------------------------	--------------------------------------------------------------------------------------	----------------------------------------------------------------------	---------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------------	---------------------------------------------------------

TABULATED SOURCE DATA - CA20

PAGE 910

INDOPATED SOOM	OF DUIL AUT	•						
CA	20 (747/) 01	51) - (0) 9	SI) D/S	(133 - 018)		(VGN13)	3) ( 11 MA	R <b>7</b> 5 )
ATA						PARAMETRIC	DATA	
VHRP =	.0008 IN.YO			•	ALPHAC = ELV-IB = ELEVON = PHI = DY =	8.000 .000 5.000 .000	EETAC = ELV-08 = MACH = OX = EETAO =	.000 3.000 .600 10.000
RN/L	. <b>3.3</b> 0 G	RADIENT INT	ERVAL =	.00/ 12.00				
27262 .00236 24717 .00151 2092400905 1464100935 10717 .00033 09149 .00115	.02803 .02445 .02093 .01525 .01155 .00846	9CY 08057 08055 08074 80120 0080 00149 08030 08002	9094 00138 00080 00049 00017 .00071 .00194 .00230 .00012	0010 .00024 .00024 .00043 .00091 .00165 .00170 .00215	DCL 20422 265019 20204 14199 10466 07934 .00594	000 06599 06570 05933 06042 03575 02562 01859 .00116	BCSL 80101 00072 00032 00006 00109 00230 00275 00013	00001
c	120 (747/) 01	SI) - (01	S1) D/S	(134 - 018)	•	(VGN13	9) (11 M	NR 75 )
DATÁ						PARAMETRIC	DATA	
VHRP =	.0800 IN.YO				ALPHAC = ELV-18 = ELEVON = PHI = DY =	0.000 .000 5.000 .000	ELV-CB = MACH = OX = EETAO =	3.000 3.000 000 20.000 20.000
RN/	_ = 3.27 (	RADIENT INT	ERVAL -	.60/ 12.00				
.0147 .27399 .0131 .23921 .0114 .17228 .0089 .12829 .0071 .09113 .0058	1 .00329 5 .00248 1 .00313 7 .00215 0 .00222	DCY 00082 00075 00028 .00055 .00160 .00303	0CBL 80123 00080 00065 00054 00024 00130 00130	DCYN008880087100859000250001600005	DCL 32839 30595 27802 23755 17120 12757 09065	0CD 04127 03901 03557 03030 02118 01528 01670	DCSL 00135 00091 00074 00067 00026 00046 00127	DCLN 00057 00055 00013 00013 00011 .00009 .00027
	CA  ATA  XMRP = 1109 YMRP = 375  ZMRP = 375  RN/L  CN DCA 29198 .00376 27282 .00038 24717 .00151 20924 .00038 10717 .00038 10717 .00038 0059300025  C/  ATA  XMSP = 1109 YMRP = 579  AN/L  CN DCA .33056 .01636 .33090 .0147 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .01318 .27399 .0053	ATA  XMRP = 1109.0000 IN.X0 YMRP = .0000 IN.Y0 ZMRP = .0000 IN.Y0 ZMRP = .0000 IN.Z0  RN/L = 3.30 G  CN	CA20 (747/1 01 51) - (01 5  ATA  XMRP = 1109.0000 IN.X0 YMRP = .0000 IN.Y0 ZMRP = 375.0000 IN.Z0  RN/L = 3.30 GRADIENT INTO  CN OCA OCLM DCY 29198 .00376 .0334200057 27262 .00232 .0280300055 24717 .00151 .0244500074 2092400005 .0209300120 1464100034 .0156900080 10717 .00032 .0115900149 00159001600002  CA20 (747/1 01 51) - (01  ATA  XMRP = 1109.0000 IN.X0 YMRP = .00001 ZMRP = 575.0000 IN.Z0  RN/L = 3.27 GRADIENT INTO  CN OCA OCLM DCY ZMRP = 575.0000 IN.Z0  RN/L = 3.27 GRADIENT INTO  CN OCA OCLM DCY 23056 .01638 .0072500082 .27999 .01315 .0024800075 .27999 .01315 .0024800028 .23921 .01141 .00313 .00055 .17228 .00937 .00215 .00160 .12829 .00710 .00222 .00303 .09113 .00550 .00358 .00434	ATA  XHRP = 1109.0000 IN.X0 YHRP = .0008 IN.Y0 ZHRP = 375.0000 IN.Z0  RN/L = 3.30 GRADIENT INTERVAL =  CN DCA DCLM DCY DCBL 29198 .00376 .033420005700138 27262 .00232 .028030005500080 24717 .00151 .024450007400047 2052400054 .0156500080 .00071 10511 .00034 .0156500080 .00071 10517 .00032 .0115500149 .00194 00115 .0084600030 .00230 00553000290011600002 .00012  CA20 (747/1 01 51) - (01 51) D/S  NATA  XMSP = 1109.0000 IN.X0 YMRP = .0000 IN.X0 YMRP = .0000 IN.X0 YMRP = .0000 IN.Z0  CA20 IN.Z0  RN/L = 3.27 GRADIENT INTERVAL =  DCN DCA DCLM DCY DCBL .33056 .01638 .007350008200123 .30908 .01471 .003290007500080 .27399 .01315 .002480002800065 .23391 .01141 .00313 .0005500064 .1228 .00897 .00215 .0016000024 .12280 .00710 .00222 .0030300048 .12280 .00710 .00222 .0030300048 .00113 .00520 .00358 .0034400130	ATA  XIMOP = 1109.0000 IN.X0 YHMOP = .0000 IN.Y0 ZHMOP = 375.0000 IN.Z0  RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00  CN DCA DCLM DCY DCBL DCYN 29198 .00376 .033720005700138 .00010 27262 .00232 .028030005500080 .00024 28717 .00151 .024950007400044 .00043 2892400005 .020930012000017 .00091 10517 .00032 .0155500080 .00071 .00165 10717 .00032 .0115500149 .00154 .00175 00159000290011600002 .00012 .00004  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  AATA  XMOP = 1109.0000 IN.X0 YMOP = .0000 IN.X0 YMOP = .0000 IN.X0 ZMOP = 575.0000 IN.Z0  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (00 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (00 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (00 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (00 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (00 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 - 0181  CA20 (747/1 01 S1) - (01 S1) D/S (134 -	ATA  XMRP = 1109,0000 IN.X0	CARD (747/1 01 S1) = (01 S1) D/S (133 = 018) (VONIS:  ATA  XMRP = 1109,0000 IN.X0  YMRP = .0000 IN.Y0  ZMRP = 375,0000 IN.Z0  CN DCA DCLM DCY DCBL DCYN DCL DCD  2788 = .0023	ATA  ATA  ATA  ATA  ATA  ATA  ATA  ATA

# TABULATED SOURCE DATA - CARD

PAGE 911

CA20 (747/1 01 S1) - (01 S1) D/S (134 - 018)

(VGN134) ( 11 MAR 75 )

## REFERENCE DATA

## PARAMETRIC DATA

LREF BREF	<b>=</b>		XMRP YMRP ZMRP	=	••	IN.YO	1111	=	8.000 000 5.000 000	BETAC ELV-09 HACH DX BETAO	*	0. 3.0 6. 0.0 <u>5</u>
SCALE		•					DY PAI	-	.000			

## RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN30478264002604622108157791137608749	9CA .00467 .00318 .00175 .80014 00158 00133 00124 00039	OCLH .01836 .01350 .01213 .01093 .01007 .00763 .00575	DCY00238002240021300229002170024000183 .00003	DCBL 00089 00035 .00006 .00067 .00013 .00136 .00228	DCYN 00028 00012 .0009 .00049 .00136 .00153 .00246	DCL 29684 27634 26314 21455 15272 11008 08459	0CD 06920 06920 06131 05335 03971 02891 02237	DCSL 00093 00037 .00008 .00077 .00045 .00169 .00281	00005 00005 00007 .00032 .00129 .00116 .00164 .00002
----------	--------------------------------------------------------------------------------------------	----------------------------------------	---------------------------------------------------------------------------------	----------------------------------------------------------------------------	-----------------------------------------------	--------------------------------------------------------------------------	-------------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------------	---------------------------------------------------------------------------

CA20 (747/1 01 S1) - (01 S1) D/S (135 - 018)

(VGN135) ( 11 HAR 75 )

## REFERENCE DATA

#### PARAMETRIC DATA

							ALPHAC =	4.080	PETAC -	-5.000
SREF 4	<b>2690.0000</b>	SQ.FT.	XHRP	=			ELV-18 *	.000	ELV-08 •	3.000
LREF :	474.8100	IN.	AHASE	-		[H.YO	ELEVON *		MACH *	.600
BREF	<b>936.68</b> 80	IN.	ZMRP	=	375.0000	IN.ZO	PHI *		ex •	.000
SCALE		)						10.000	BETAO .	.000

# RUN NO. 0/ 0 RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00

ALPHAO 10.000 10.000 10.000 10.000 10.000 10.000	0Z .000 3.800 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 07731 07461 05933 05819 03779 02245 00622 .00107	OCA .00756 .00596 .00653 .00628 .00634 .00649 .00670	0004 .03285 .02884 .02640 .02301 .01742 .01259 .00796	DCY 00374 00399 00309 00133 .00165 .00372 .00553	OCBL 00265 00275 00259 00227 00167 00171 00153	DCYN 00189 00152 00101 00043 .00047 .00053 .00069	CCL 07745 07468 06941 05840 03832 02323 00729 .00108	00598 00511 00561 00392 00032 .00249 .00552	00314 00297 00297 00231 00176 00160 00139	00137 00102 00054 00003 .00079 .00082 .00095
--------------------------------------------------------------------	----------------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------------	-----------------------------------------------------------------------	---------------------------------------------------------------------	------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------	-------------------------------------------------------------	----------------------------------------------------------------

CA20 (747/1 01 SI) - (01 SI) D/S (136 - 018)

(VGN1361 ( 11 MAR 75 )

	REFEREN	CE DATA							PARAMETRIC	DATA	
SREF = 8	2690.0000 <b>SQ</b>	.FY. XMRP	= 1109.00	00.NI 08				ALPHAC =	4.080	BETAC -	-5.000
LREF =	474.8100 IN			00 IN.YO				E1.V-18 =	.080	ELV-08 =	3.000
BREF =	938.6800 IN		- 375.00	000 IN.20				ELEVON =	5.000	HACH =	.600
SCALE =	.0300	•						PHI =	.000	ox =	10.000
	•		,				4	DY =	10.000	EETAD =	.000
		RUN NO.	<b>8/</b> 0	RN/L =	3,26 GRA	DIENT INTER	IVAL = .0	10/ 12.00			
ALPHAO	OZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL	DCLN
18.883	.000	-,11377	.00922	.02398	00323	00166	00168	11365	01068	00192	03137
10.000	3.080	- 10739	.00824	.02029	00340	00183	00144	10719	01053	00205	00110
10.000	7.500	098 <b>93</b>	.00721	.01940	00228	00198	00116	09838	01003	00215	00080
10.000	15.000	08219	.08540	.01728	00135	00280	08854	09205	00797	00206	00019
10.809	30.008	65650	.00574	.01357	.00248	00165	.00026	05664	00416	00177	.00059
10.000	45.000	03871	.00806	.00391	.08483	00171	.00044	03918	00976	00161	.00073
10.000	60.003	02154	.00647	.00649	.08493	00155	.00948	02233	.00263	00146	.00075
	GRADIENT	.00201	00027	00059	.00005	00804	.00007	.00203	.00809	00003	.00007
			CAED	(747/1 0	1 51) - 101	SI) D/S	(137 - 018)		(VGN13		IR 75 )
	REFEREN	CE DATA	CARD	(747/1 0	1 S1) - 101	SI) D/S	(137 - 019)	•	(VGN13		VR 75 )
				.,,,,,,,	1 51) - 101	S1) D/S	(137 - 019)				.000
	2690.0000 SQ	.FT. 1659P	= 1169.0	000 IN.XO	1 St) - (01	SI1 D/S	(137 - 018)	ALPHAC = ELV-18 =	PARAMETRIC	: DATA	
LREF =	2690.0080 SQ 474.8188 IN	.FT. X659P . YHRP	= 1169.0	000 IN.XO 00.XI 000	1 51) - (01	SI1 D/S	(137 - 018)	ALPHAC =	PARAMETRIC	DATA  BETAC =	.008
LREF = .	2690.0000 SQ 474.8100 IN 936.6800 IN	.FT. X659P . YHRP	= 1169.0	000 IN.XO	1 S1) <b>-</b> (01	\$11 D/S	(137 - 018)	ALPHAC = ELV-18 =	PARAMETRIC 4.080	DATA  BETAC = ELV-08 =	.000 3.000
LREF =	2690.0080 SQ 474.8188 IN	.FT. X659P . YHRP	= 1169.0	000 IN.XO 00.XI 000	1 <b>5</b> 1) - 101	S11 D/S	(137 - 019)	ALPHAC = ELV-18 = ELEVON =	PARAMETRIC 4.000 .000 5.000	DATA  BETAC = ELV-08 = MACH =	.008 3.000 .600
LREF = .	2690.0000 SQ 474.8100 IN 936.6800 IN	.FT. X659P . YHRP	= 1169.0 = .0 = 375.0	000 IN.XO 00.XI 000				ALPHAC = ELV-18 = ELEVON = PHI =	PARAMETRIC 4.000 .000 5.000	BETAC = ELV-OB = MACH = DX =	.000 3.000 .600
LREF = BREF =. SCALE =	2690.0000 SQ 474.8109 IN 926.6800 IN .0300	FT. 1658P . YHEP . ZIESP	= 1169.0 = .0 = 375.0	000 IN.XO 000 IN.YO 000 IN.ZO		e.		ALPHAC = ELV-1B = ELEVON = PHI = DY =	PARAMETRIC 4.000 .000 5.000	BETAC = ELV-OB = MACH = DX =	.000 3.000 .600 .000 .000
LREF = EREF = . SCALE =	2690.0000 SQ 474.8100 IN 926.6800 IN .0300	FT. 1658P YHEP ZIESP RUN NO.	= 1169.0 = .0 = 375.0	000 IN.X0 000 IN.Y0 000 IN.Z0	3.35 GR/	DIENT INTEF	RVAL = .0	ALPHAC = ELV-18 = ELEVON = PHI = DY =	PARAMETRIC 4.000 .000 5.000 .000 10.000 DCD 00948	DATA  BETAC = ELV-08 = MACH = DX = BETAO = DCSL - 00851	.008 3.000 .600 .000 .000
LREF = EREF = . SCALE = ALPHAO 10.000	2690.0000 SQ 474.8100 IN 936.6800 IN .0500	FT. 1658P . YHEP . ZIESP	= 1169.0 = .0 = 375.0	000 IN.X0 000 IN.Y0 000 IN.Z0 RN/L =	3.35 GR/ DCY	DCSL	RVAL = .E	ALPHAC = ELV-18 = ELEVON = PHI = DY = DOL - 07991 - 07595	PARAMETRIC 4.000 .000 5.000 .000 10.000 DCD 00948 00894	BETAC = ELV-08 = MACH = DX = BETAO = DCSL - 00851 - 00858	.008 3.000 .600 .000 .000 .000 .000 3.00112
REF = BREF = . SCALE = ALPHAO 10.000	2690.0000 SQ 474.8100 IN 926.6800 IN .0300	FT. 1658P  YHEP  ZIESP  RUN NO.  DCN  - 09034	= 1169.0 = .0 = 375.0 0/ 0 DCA .00454	200 IN.X0 200 IN.Y0 200 IN.Z0 RN/L = DCLH .03761	3.35 GR/ DCY .00155	DCBL 00814	RVAL = .0 DCYN 00279	ALPHAC = ELV-18 = ELEVON = PHI = DY = DCL0789106886	PARAMETRIC 4.000 .000 5.000 .000 10.000 DCD 00948 00894 00732	BETAC = ELV-08 = MACH = DX = BETAO = DCSL0085100567	.000 3.000 .000 .000 .000 .000 3.00112 00123
REF = 8REF = . SCALE = ALPHAO 10.000 10.000	0000 SQ 474.000 SQ 474.000 IN .0300 SQ .000 SQ	FT. 1658P . YHEP . ZIESP . RUN NO DCN0903407625	= 1109.0 = .0 = 375.0 0/ 0 DCA .00454 .00937	200 IN.X0 200 IN.Y0 200 IN.Z0 RN/L = DCLH .03761 .03288	3.35 GR/ DCY .00155 .00931	DCBL 00814 00556	DCYN 00279 00230 00179 00106	ALPHAC = ELV-18 = ELEVON = PHI = DY = DCL07991 07595 06886 05747	PARAMETRIC 4.000 .000 5.000 10.000 10.000 DCD 00948 00894 00732 00489	BETAC = ELV-OB = MACH = DX = BETAO = DCSL008510085700857008421	.000 3.000 .000 .000 .000 .00133 00133 00122 00062
ALPHAO 10.000 10.000 10.000	02 02 03 03 03 03 03 03 03 03 03 03 03 03 03	FT. XGSP . YHEP . ZIESP . RUN NO DCN 09034 07625 08908	= 1109.0 = .0 = 375.0 0/ 0 OCA .00454 .00437	200 IN.X0 200 IN.Y0 200 IN.Z0 RN/L = DCLH .03761 .02288 .02924	3.35 GR/ DCY .00155 .00931 .00004	DCBL 00814 00556 00544	DCYN 00279 00230 00179 00105 00008	ALPHAC = ELV-1B = ELEVON = PHI = DY = BD/ 12.00 DCL =.07591 07595 06865 05747 03712	PARAMETRIC  4.000 .000 5.000 .000 10.000  DCD0094800934007320048900066	BETAC = ELV-08 = MACH = DX # RETAO = DCSL00851008570087200272	.000 .000 .000 .000 .000 DCLN 00133 00112 00022 00024
REF = 8REF = . SCALE = ALPHAO 10.000 10.000	02 02 03 03 03 03 03 03 03 03 03 03 03 03 03	. YHEP . YHEP . ZIEP RUN NO. 	= 1169.0 = .0 = 575.0 0/ 0 DCA .00454 .00437 .00475	000 IN.X0 000 IN.Y0 000 IN.Z0 RN/L = DCLM .03761 .0288 .02924 .02943	3.35 GR/ DCY .00155 .00031 .00004 .00024 .00169	DCBL 00814 00556 00544 00408 00274 00224	PCYN 00279 00230 00179 00105 00008	ALPHAC = ELV-18 = ELEVON = PHI = DY = BO/ 12.60 DCL07991 07595 06885 05747 03712 02293	PARAMETRIC  4.000 .000 5.000 .000 10.000  DCD0094800944007320048900066 .00239	BETAC = ELV-08 = MACH = DX = EETAO = DCSL00851005670084210027200215	.000 3.000 .000 .000 .000 DCLN 00133 00112 00062 00083 .00040
ALPHAO 10.688 10.680 10.680 10.680 10.680	0200 0200 0200 0200 0200 0200 0200 020	FT. 165P YHEP ZIEP RUN NO. 9CN 09034 07625 08908 09745 03667	- 1109.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -	RN/L =  DCLM .02288 .02288 .02284 .02443 .01763 .01269	3.35 GR/ DCY .00155 .00031 .00024 .00169 .00340 .00500	DCBL 00814 00556 00544 00408 00274 00224 00165	PCYN0027900279001790010600008 .00028	ALPHAC = ELV-18 = ELEVON = PHI = DY = BO/ 12.00 DCL07991 07595 06886 05747 03712 02293 00732	PARAMETRIC  4.000 .000 5.000 .000 10.000  DCB009480099400732004890023900239	BETAC = ELV-08 = MACH = DX # BETAO = DCSL008510085700857002150021500151	.000 3.000 .000 .000 .000 DCLN 00133 00112 00023 00040 .00067
ALPHAO 10.000 10.000 10.000 10.000	02 02 03 03 03 03 03 03 03 03 03 03 03 03 03	FT. 165P 176P 214S RUN NO. 9CN 09034 07625 06908 05745 03667 02216	= 1109.0 = .0 = .75.0 0/ 0 0CA .00454 .00437 .00475 .00516 .00590	RN/L =  DCLH .03761 .0288 .02924 .02143 .01783	3.35 GR/ DCY .00155 .00031 .00004 .00024 .00169	DCBL 00814 00556 00544 00408 00274 00224	PCYN 00279 00230 00179 00105 00008	ALPHAC = ELV-18 = ELEVON = PHI = DY = BO/ 12.60 DCL07991 07595 06885 05747 03712 02293	PARAMETRIC  4.000 .000 5.000 .000 10.000  DCD0094800944007320048900066 .00239	BETAC = ELV-08 = MACH = DX = EETAO = DCSL00851005670084210027200215	.000 3.000 .000 .000 .000 DCLN 00133 00112 00062 00083 .00040

PAGE 913

(VGN138) ( 11 MAR 75 )

CA20 (747/1 01 51) - (01 51) 0/5 (138 - 018)

	REFERENCE	· D174						P	ARAHETRIC	DATA	
LREF #	690.0000 SC.5 474.8100 IN. 936.6900 IN. .0300		.00	00.1N.XO 1N.YO 10.ZO				ALPHAC = ELV-18 = ELEVON = PHI =	.000	BSTAC = ELV-08 = MACH = DX = BETAO =	.000 3.000 .600 10.000
		RUN NO.	0/0	RN/L =	3.29 GRA	DIENT INTER	/AL = .0	0/ 12.00			
ALPHAO 10.000 10.000 10.000 10.000 10.000 10.000	02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	OCN 11323 10547 09740 08136 05567 03773 01991 .00210	DCA .00570 .00513 .00486 .00483 .00510 .00556 .00609	DCLM .02998 .02491 .02196 .01658 .01397 .00980 .00645 00091	DCY .09071 09020 00046 00007 .00205 .00353 .00479 00015	0084 00784 00524 00518 00399 00281 00223 00170	DCYN 00260 00218 00178 00114 00021 .00025 .00042	0CL 11250 10574 09577 08095 05571 03913 02067	000 01405 01344 01213 00937 00464 00108 .00253 .00026	0051. 00763 00693 00541 00413 00260 00266 00161	DCLN +.00123 00105 00085 00083 .00028 .00063 .00070
											kR 75 1
			CAZO	(747/1 0	1 51) - 101	S1) D/S	(139 - 0191	)	(VGN13	ai (11 m	(ft 15 1
	REFERENC	E DATA							PARAMETRIC	DATA	
SREF = 6 LREF = BREF = SCALE =	2690.0080 SQ. 474.8109 IN. 936.6809 IN.	FT. XMRP YMRP	<b>-</b> .0	000 IN.XO 000 IN.YO 000 IN.ZO				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.000 .000 5.000 .000 10.000	BETAC = ELV-CB = MACH = DX = EETAO =	5.000 3.000 .600 .000
		RUN NO.	0/ 0	RN/L =	3.25 GR	ADIENT INTER	RVAL	00/ 12.00			
ALPHA0 10.000 10.000 10.000 10.000 10.000 10.000	.020 3.000 7.500 15.000 30.000 45.000 60.000	DCN 08094 07627 06744 05509 03377 02007 80501	0CA .00353 .00385 .00475 .00485 .00575 .00611	DCLH .04731 .04013 .03427 .02730 .01917 .01310	DCY .00802 08034 08084 .00125 .00244 .00355	DCBL 01469 01116 00865 00501 00380 00254 00130	OCYN0046200370002850017600044 .00064 .00054	DCL 08032 07578 05724 05509 03425 02083 00608	DCD 01058 00945 00703 00479 00020 .00253 .00555	00118	DCLN 00200 00171 00130 00069 .00022 .00048 .00076

PAGE 914

CA20 (747/1 01 S1) - (01 S1) D/S (140 -	0181
-----------------------------------------	------

(VGN1401 ( 11 MAR 75 )

CUAIA
1

SREF =	2698.0000 50.0	т умер	•	1169.0809	IN.XO	ALPHAC =	4.000	ESTAC -	5.000
				.0809		ELV-IB =	.000	ELV-09 =	3.000
lref #					-	ELEVON =	5.000	MACH =	.600
BREF =	936.6830 IN.	ZHRP	-	375.0000	IN.ZO	=== :			
SCALE =	.0300					PHI =	.000	DX =	
CONLL	******					DY · ·	10.000	BETAO =	.000

## RUN NO. 0/0 RH/L = 3.26 GRADIENT INTERVAL = .00/12.00

ALPHAD 10.000 10.000 10.000 10.000 10.000	02 .090 3.008 7.590 15.090 89.000 45.000	DCN 11748 10902 09718 07949 05328 05026 01997	DCA .00315 .00323 .00389 .00446 .80516 .00550 .00516	DCLM .03846 .03289 .02655 .02121 .01518 .01057	DCY 0068 0078 0091 00013 .00155 .00270 .00342	DCBL 01455 01132 00873 00615 00379 00269 00168	00YN 00415 00336 00260 00172 00845 .00004 .00026	DCL 11624 10792 09636 07905 05346 03567 02063	DCD 01730 01575 01313 00941 00076 .00261	005L 01505 01173 00905 00635 00381 00264 00161	00159 00134 00104 00053 .00021 .00051
10.080	60.000 GRADIENT	01997 .60270	.08089.	00156	.08084	.00076	.00020	.00264	.00055	.00078	.00007

CARD (747/1 01 S1) - (01 S1) D/S (141 - 010)

(VGN141) ( 11 MAR 75 )

#### REFERENCE DATA

## PARAMETRIC DATA

-	2620.0000	CO ET YME	# 95	1109.8080	IN.XO	ALPHAC	; =	4.000	BETAC	=	.800
SREF -					IN.YO	ELV-IE	3 =	10.000	ELV-09	=	13.000
LREF •						ELEVON	· -	5.000	MACH	=	.600
erer =			(P) #	375.0000	[N.ZU	PHI	` _	.000	ממ		.000
SCALE =	.0300					DY	-	.000	BETAD		.000

## RN/L = 3.26 GRADIENT INTERVAL = -1.80/ 4.80

ALPHAO =	10.009 DZ .000 3.000 7.500 15.000 30.000 45.009 69.000	OCN 14473 13093 11803 09586 05940 05135 03176	DCA .00792 .00521 .00552 .00555 .00293	0CLH .04961 .03855 .03372 .02441 .01743 .01145	DCY 00040 00035 00035 .00015 .00050 .00169	DCBL 08059 08035 08024 .08001 08085 08015	DCYN 09021 09016 09080 .00080 .00059 .00037	DCL 14391 13802 11721 09581 06887 05097 03159	000 01733 01652 01497 01329 00912 00569 00373	DCSL 0062 0038 00025 .00004 .00007 00009 00003	DCLN 08010 08010 08033 -08039 -08039 -08080
	GRADIENT	.00450	00057	00359	.60001	.00008	.00002	.00463	.00024	.0008	-00000



TABULATED SOURCE DATA - CA20

PAGE 915

-.C003B

.00009

-.08422

.00015

.00032

.00001

		CV50	(747/1 01	S11 - (01 S	S1) D/S (	141 - 010)		(VGN14)	1) ( 11 MA	R 75 )
REFEREN	CE DATA						ı	PARAMETRIC	DATA	
SREF = 2690.0000 SQ LREF = 474.8100 IN BREF = 936.6800 IN SCALE = .0300	FT. XMRP	.01	000 IN.XO 000 IN.YO 008 IN.ZO				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.080 10.000 5.000 .000	BETAC = ELV-08 = HACH = DX = BETAO =	.000 13.000 .000 .000
		RN/L =	3.20 G	RADIENT INTE	ERVAL = -1.	.00/ 4.00				
ALPHAO = 14.000 DZ .000	DCN 19893	OCA .01370	DCLM .06934	DCY 00363 00296	OCBL .00108 .00152	DCYN .00106 .00075	DCL 10901 09837	DCD 01306 01485	.00128 .00165	DCLN .00077 .00036
3.000 7.500 15.000 30.000	05904 09109 07914 05768	.00939 .00858 .00926 .00970	.051 <b>07</b> .04179 .03157 .02081	00293 00270 00154	.00152 .00163 .00185 .00175	.00079 .00114 .00120	09045 07903 05849	01373 01016 06459	.00177 .00207 .00199	.00037 .00065 .00074
45.000 60.000 GRADIENT	04554 03303 .00330	.01020 .01073 ~.00144	.01408 .00743 00576	00087 00022 .00022	.00125 .00075 .00016	.00100 68800. 01000	04666 03465 .00355	51100 54500. 08000	.00146 .2009: .00013	.00069 .00067 00014
		CA20	(747/1 01	S1) - (0) !	SL1 <b>D/</b> S	(142 - 010)	1	rVGN14	2) t 11 M	R 75 }
REFEREN	CE DATA							PARAMETRIC	DATA	
SREF = 2690.0000 SO LREF = 474.8100 IN EREF = 936.6800 IN SCALE = .0300	.FT. XHRP	<b>-</b> .0	888 IN.XO 888 IN.XO 888 IN.ZO				ALPHAC = ELV-IB = ELEVON = PHI = DY =	4.800 -10.000 5.000 .000	ELV-08 = MACH = DX = BETAO =	.080 -7.000 .600 .000
		RN/L =	3.27 0	RADIENT INT	ERVAL = -1	.00/ 4.09	÷			
ALPHAO = 10.000 DZ	DCN	DCA	DCLH	DCY	DCEL	DCYN	DCL	DCD	DCSL	DCLN
.000 3.000 7.500 15.000	15447 13952 12507 10562	.00731 .00514 .00403 .00335	.05240 .04850 .03434 .02704	00042 00033 00074 00009	00074 00047 00023 .00007	00028 00020 .00002 .00020	15339 13829 12387 10460 07416	01963 01917 01775 01504 01779	00877 00050 00022 .00010	00015 00012 .00005 .00018
30.009 45.009	07491 05589	.60225 .602 <b>2</b> 2	.01836 .01259	.00025	08020	.00035	05621	09765	00013	.00039

.00119

.08083

.00625

-.00397

.00195

-.00072

-.03541

.00498

60.000

GRADIENT

-.00043

.00009

.00025

.00003

-.03522

PAGE 916

BATE 04 DEC 75	TABULATED SOUR	E DATA - CAR	0					PAG	- 310
	CA	20 ( <b>7</b> 47/1 0)	S1) - (0) S	1) D/S	(142 - 010)		CVGN143	2) (11 HA	75 )
	- 0174						PARAHETRIC	DATA	
REFERENC	LUAIA								.000
SREF = 2690.0000 <b>50.</b>	FT. XHRP = 1109	OX.NI 0000.				ALPHAC =	4.000	BETAC = ELV-OB =	-7.080
LREF - 474.0100 IN.	AMSE =	.0000 IN.YO				ELV-1B = ELEVON =	-10.000 5.000	HACH =	.600
BREF - 936.6800 IN.	ZMRP = 375	.0080 IN. <b>ZO</b>				PHI =	.000	DX =	.000
SCALE = .0300						DA =	000	BETAO =	.000
	RH/L	<b>-</b> 3.23 G	RADIENT INTE	RVAL = -1	.00/ 4.00				
ALPHAO = 14.000		20.14	DCY	DCBL	DCYN	DCL	DCD	DCSL.	DCLN
DZ	OCTA DCA	DCLM .07343	00483	.00151	.00157	12713	01775	.00184	.00116
.000	12755 .01354 11879 .01039		0041B	.00185	.00131	11778	01856	.00211	.00083
3.000			00344	.00170	.00108	10991	01795	.00191	.60054
7.500	11002 .00893 00554 .00903		00270	.00154	.00097	09585	01481	.00173	.00057
15.000	07349 .00954		00134	.00153	.00114	07763	60842	.80176	.00073
30.000	05931 .01014		80100	.00135	.00096	+.05/190	00449	.00154	.00051
45.000 60.000	64481 .01050		00875	.00117	.08081	0+602	0806/3	.00133	.00050
GRADIENT	.0010500105		.00022	.00011	0000B	.01312	00831	.00009	00011
	_			. 0/5	£143 - 010	13	(VGN14	+3). (11 H	IR 75 )
	C.	20 (747/1 0)	S1) - (Ot !	317 073	1115 510	•			
REFEREN	E BATA						PARAMETRI	C DATA	
<del>,</del>						ALPHAC =	4.000	BETAC =	-000
SREF = 2690.0000 50	.FT. 10987 = 118	9.0000 IN.XO				RUD-U =	15.000	RUD-L =	15.000
LREF - 479.8100 IN		.0000 IN.YO				ELEVON =	5.000	AILRON =	.000
PREF = 938.6800 IN	. ZMRP = 37	5.0000 IN.ZO				PHI =	.000	DX =	.080
SCALE = .0300						DY =	.080	BETAD =	.000
	RN/	L = 3.27 (	GRADIENT INT	ERVAL -	1,00/ 4.80	,			
ALPHAD = 10.880				0.004	DCYN	DCL	DCD	DCSL	DCLN
OZ	DCN DCA	DCLH	DCY	DCBL	00840	14626	01829		00020
.008	14721 .0073		.00073	00109 00079	00033	13158	01783		00015
3.000	13268 .0052		.00080	08062	00001	12022	01602		.00010
7.500	12118 .0051		23080.	- 00002	00001	10092	01333		.00003

-.00407

- 10170 15.000 -.07138 30.000 -.05542 45.000 -.03559 69.000

.00208 -.00070 GRADIENT .00484

.00440

.00271

.00252

.03443 .00065 .08119 -.00029 .02694 .00008 .00119 .01729

-.00033 .01221 .60139 -.00059 .00147 .60649

.00055 .00003 .000002 .00010

**~.0**3539 .00469

-.00002

.00854

.00051

-.10092

-.07077

-.05501

.00010 .00015

~.00972

-.00714

-.00024 -.08433

.00017

-.00046

.00075

.00002

.00052

TABULATED SOURCE DATA - CA20

-.0000t

.00248

GRADIENT

-.00195

.08011

PAGE 917

## CA20 (747/1 81 S1) - (01 S1) D/S (143 - 010)

(VGN143) ( 11 MAR 75 )

.00010

.00040

-.00002

	REFEREN	CE DATA						PARAMETRIC DATA				
SREF = LREF = BREF = SCALE =	2690.0000 50 474.0100 IN 936.6800 IN	, YHRP	P = .0000 IN.YO			ALPHAC == RUD-U == ELEVON == PHI == OY ==			4:000 15:000 5:000 -000	BETAC = RUD-L = AILRON = DX = BETAO =	.000 15.000 .000 .000	
			RN/L =	3.23 (	RADIENT INT	ERVAL!	.00/ 4.00					
ALPHAO =	14.000											
	DZ	DCN	DCA	DCLH	DCY	DCBL	DCYN	DCL	DCD	DCSL.	DCLN	
	800.	10980	.01312	.08291	00223	.00090	.00099	10874	01359	.00101	.00077	
	3.000	-,10358	.01097	.65161	00163	.00099	.00079	10314	01441	.00115	.60053	
	7.500	09772	.01059	.04374	00145	.00115	.00069	69739	01337	.00128	.00039	
	15.600	08329	.60982	.03215	00121	.00127	.00078	08319	01062	.00142	.00645	
	30.000	06217	.01050	.02154	08054	.08139	.00099	06289	09476	.00159	.00082	
	45.000	<b>0</b> 4808	.01031	.01376	08069	.00124	.00098	04914	00163	.00143	.00003	
	60.000	03354	.00934	.00576	.00051	.00111	.00025	03499	.00144	.00131	.00083	
	GRADIENT	.09175	60072	00377	.08020	.00006	00007	.00187	00927	.00805	00003	
	REFEREN	CE DATA	CAZO	(747/1 0	SI) - (0) !	SI) D/S	(144 <b>-</b> 018)		(VGN14		AΩ 75 )	
										DET.0 -		
	2690.0000 50			OX.NI 000			÷	ALPHAC -	4.000	BETAC = RUD-L =	.009 15.009	
LRSF =	474.8100 IN			088 IN.YO				AUD-U = ELEVON -	15.000 5.000	AILRON =	.000	
BREF =	936.6800 IN	. ZHRP	= 375.0	089 IN.ZO				FHI =	.000	DX =	.000	
SCALE =	.0300							DY =	.000	EETAO =	.000	
								<i>5</i> 1 -	.000	CEIRO	.000	
			RN/L •	3.35	RADIENT INT	ERVAL = -1	.00/ 4.00					
ALPHAO =						:	*		nen	0.001	ne	
	OZ	DCN	DCA	DCLH	OCY	DCBL.	DCYN	DCL	DCD	DCSL	SCLN	
	Č00.	20533	.00169	.08380	.00015	00127	.88884	20250	0346B 0346B	00129	.00026 .00021	
	3.000	19815	.00163	.07794	.09048	08897	.00004	19542	03880 03075	00095 00083	.00021	
	7.500	18822	.00195	.07354	.00075	00084	.00000 15000.	18570 16983	02763	00085	.00029	
	15.000	17206	.00223	.06837	.03111	08845					.00023	
	30.000	14549	.00276	.05150	.08270	00025	.00019	~.14376	02254	00021	.00003	
	45.600	12789	.00308	.05537	.08295	00032 00037	08003	12647	01917 01544	00032	08017	
	60.009	10853	.00345	.05101	.00357	000.57	00024	10748	~.01244	00041		

.00226

-.00000

TABULATED SOURCE DATA - CA28 DATE 04 DEC 75

PAGE 918

CA20 (747/1 01 S1) - (01 S1) 0/5 (145 - 008)

(VSN145) ( 14 MAR 75 )

PARAMETRIC DATA

## REFERENCE DATA

	-	2690.0000 SQ.FT. 474.8100 IN. 936.6800 IN.	XMRP YMRP ZMRP	•	1109.0000 .0000 375.0000	IN.YO	ALPHAC ELEVON DX MACH ELV-18	-	4.089 .009 .009 .609	BETAC PHI DY BETAO ELV-09		000. 000. 000. 000. 000.E
--	---	--------------------------------------------------	----------------------	---	--------------------------------	-------	------------------------------------------	---	-------------------------------	---------------------------------------	--	---------------------------------------

## RN/L = 3.37 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO =	10.600 0Z .000 3.060 7.590 15.000 30.000 45.000 60.000 CRADIENT	DCN 15334 13921 12698 10715 07859 05548 03115 .00471	DCA .00782 .00556 .00471 .00255 .00138 .00008 00075	DCLM .05129 .03933 .03310 .02581 .01803 .00775 00170	DCY0007000044000550003400047 .00054 .00104 .00009	DCSL 00064 00043 00032 00033 .00016 00026 00057	0018 .00016 .00024 .00042 .00067 .00031 .00079 .00072	9CL 15237 13807 12587 10517 07801 05480 03069 .00477	000 01892 01879 01741 01492 01076 00826 00533 .00007	0051 00060 00039 00024 .00039 00032 00012 00043	00LN .60027 .60031 .00047 .60056 .60097 .60091
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------------	---------------------------------------------------------------------------	---------------------------------------------------	----------------------------------------------------------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------------------------------------	------------------------------------------------------------------

## RN/L = 3.36 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 12000 10728 09919 05495 06195 04973 03745 .00424	DCA .01391 .00554 .00930 .00780 .00814 .00865 .00917 ~.00146	9CLH .97315 .05289 .04261 .03173 .01993 .01410 .80255 60675	DCY 00162 00115 00001 00045 .00078 .00057 .00038	908L 00033 00009 00010 .00023 .00030 .00049 .00071	00057 .00057 .00047 .00053 .00050 .00048 .00077 .00108	DCL 11980 10640 09925 08422 06209 05034 03656 .00447	DCD 01554 01670 01594 01295 00709 00364 00016 00039	DCSL 00018 .00002 .00028 .00037 .00040 .00065 .00055	DCLN .08054 .08847 .00849 .00653 .00053 .00663 .00663
----------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	-----------------------------------------------------------------------	-------------------------------------------------------------------------	-----------------------------------------------------------------------------	------------------------------------------------------------------------------	-----------------------------------------------------------------------------	---------------------------------------------------------------------------	----------------------------------------------------------------------------



DATE 09 DEC 75

# TABULATED SOURCE DATA - CA20

-.00100

.00313

GRADIENT

-.00514

(VGN146) ( 14 MAR 75 ) CA20 (747/1 01 S1) - (01 S1) D/S (145 - 011)

-.00011

.00010

.00030

.00328

PAGE 919

			CVSD	(747/1 01	21) - 101 2	117 0/3 (	1140 - 0117				_
	REFERENCE	E DATA							PARAHETRIC	DATA	
				<b></b>				ALPHAC =	4.000	BETAC -	.000
SREF = 2	690.0000 50.1		= 1109.000					ELEVON =	10.000	PHI =	.000
	474.8100 IN.	YMRP		OY.NI BC				DX =	.000	DY =	.000
BREF =	936.6300 IN.	ZMRP	= 375.08	00 IN.ZO				MACH =	.600	BETAO =	.000
SCALE =	.0300							ELV-IB =	.080	ELV-08 =	3.000
			RN/L =	3.33 G	RADIENT INTE	ERVAL = -1.	.00/ 4.00				
ALPHAO =	10.000				mate	DC9L	DCYN	DCL	DCD	DCSL	DCLN
	DZ	DCN	DCA	DCLH .	DCA	00046	00013	14859	01884	00048	08805
	.000	14960	.00724	.05194	00029	00022	00003	13277	01865	00022	.00081
	3.000	13399	.60468	.03983	00022 .00028	.000022	00002	11880	01692	.00006	00003
	7.500	11993	.00397	.03300	.00025	.00007	.00046	09915	01361	.00033	14000.
	15.000	10001	.00381	.02613	.00083	.80648	.00075	06890	009992	.00060	.00055
	30.000	06957	.00220	.01760	.00135	.08080	.00050	05241	08694	.00013	.00049
	45.080	05282	.00227	.01229	.00195	00023	.00035	03376	00382	00017	.0003B
	60.000	03391	.00210	.00548	.00002	.03003	.00004	.00527	.00006	.00009	.00002
	GRADIENT	.00520	00085	00464	.00000	.00000			••		
			RN/L =	3.27	RADIENT INT	ERVAL = -1	.08/ 4.88				
ALPHAO =	14.000						BOWN	DCL	DCD	DCSL.	DCLN
	02	DCN	DCA	DCLM	DCY	DCBL	00039	11621	01447	00172	.00002
	.080	11626	.01408	.08762	.00801	00167		10638	01511	00150	00638
	3.000	10697	.01108	.05219	.00092	00136	08073		01389	00167	00059
	7.500	65934	.01046	.04237	.00174	00148	00097	09892 08770	01033	00191	00061
	15.000	08759	.01120	.03292	.00215	00171	00105	06972	00292	00164	.00018
	30.000	08935	.01403	.02103	.00197	00105	80000	05702	00232	00143	.00033
	45.080	05525	.0140B	.01479	.00229	00!46	00003	04400	.00338	00189	.00046
	60.000	04188	.01392	.00955	.00265	00190	09000 09011	.00328	00021	.00007	00013
				00544	DOGGO	กเลยก	→ . III SE \$ 1 1	.uv <i>a</i> co		10000	·

.000

.000

.000

.800

-10.088

CA20 (747/1 01 S1) - (01 S1) D/S (149 - 009)

(VGN149) ( 11 MAR 75 )

RUD-L =

AILRON =

BETAO =

PARAMETRIC DATA

.000

.000

.000

5.000

4.000 ESTAC -

DХ

### REFERENCE DATA

### ALPHAC = SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN.XO RUD-U = .0000 IN.YO YHRP = LREF = 474.8100 IN. ELEVON -ZHRP - 375.0000 IN.20 BREF = 935.6800 IN. PHI = SCALE = .0390

## RN/L = 3.34 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	DCN 15192 1266 12269 16000 06393 05045 02917 .00509	DCA .06745 .06537 .06415 .60310 .60232 .60237 .00234 00069	OCLH .05063 .03805 .03151 .02168 .01189 .00506 00193	DCY0025100255002230015900008 .00022	DCBL 00447 00375 00345 00298 00240 00255 00254	DCYN 60114 60071 60025 .00018 .00088 .00065 .00062	DCL 15090 13551 12155 09902 05927 05009 02913 .00513	000 01905 01894 01721 01931 00895 00878 .00020	005L 00460 00382 00394 00290 00221 00240 00240	DCLN0003500005 .00035 .00070 .00128 .00108 .00105
----------	--------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------------------------------------------	-------------------------------------	---------------------------------------------------------------------	-------------------------------------------------------------------------	------------------------------------------------------------------------------	---------------------------------------------------------------------	---------------------------------------------------------------------	---------------------------------------------------

# RN/L = 3.29 GRADIENT INTERVAL = -1.00/ 4.00

ALPHAO =	14.000 OZ .000 3.000 7.500 15.000 50.000 45.000 60.000 GRADIENT	DCN -,10946 -,11126 -,10557 -,03449 -,06107 -,04731 -,03328 -,00060	004 .01518 .01159 .01077 .00546 .01037 .01050 .01079 ~.00026	0CLH .05951 .05436 .04694 .02904 .01601 .00797 00012	DCY0052300312002500020600023 .00025 .00076	DCBL 00383 00273 00184 00111 00068 00080 00089	DCYN .60021 60058 00059 .00010 .00022 .00024 .00031 00036	DCL 10963 11075 10593 05926 05176 04647 03490 00037	000 01273 01567 01509 01126 00471 00116 .00242 00099	0051 00367 00279 00105 00061 00071 00079 .00029	0018 .0013 .00010 0003 .00039 .00039
----------	--------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	---------------------------------------------------------------------------	--------------------------------------------	---------------------------------------------------------------------	-----------------------------------------------------------------------------------	-----------------------------------------------------------------------------	------------------------------------------------------------------------------	----------------------------------------------------------------------	-----------------------------------------------------

**DATE 26 NOV 75** ( 26 NOV 75 ) (ESN034) CARRIER DATA CA20 747/1 PARAMETRIC DATA REFERENCE DATA .000 ELV-IB = BETAC = -5.000 5500.0000 SQ.FT. 327.7800 IN. XMRP 1339.9000 IN.XC SREF .000 RUD-U = ELV-OB = 3.000 YMRP .0000 IN.YC = LREF .000 RUD747 = RUD-L = .000 2348.0400 IN. ZMRP 190.8000 IN.ZC BREF = SCALE = .0300 3.27 GRADIENT INTERVAL = -1.00/ 5.00 RN/L = .600 MACH CSL-C CLN-C CD-C CBL-C .00958 CL-C CYN-C CY-C CA-C CLM-C CN-C ALPHAW .00877 -.01832 .03987 -.01788 .09533 -.14653 .08008 .03251 .09826 -.01790 2.000 .01021 .04335 .28704 .01159 -.01698 .07742 .29083 .01961 -.19400 4.000 -.01731 .05189 .01150 -.01588 .47871 -.33328 .07473 .01339 .48276 -.00149 6.000 -.01659 .01250 .07407 .66973 .01479 -.01468 .07189 -.25907 8.000 .67358 -.02244 .01139 -.01803 .85256 .12347 -.01590 .07385 .01433 -.26503 .86172 -.02776 10.000 .01125 -.01846 .98051 .18439 -.01592 .07397 .01465 -.02028 -.28006 .99737 12.000 .00174 .00072 .00021 .09586 .00045 -.02373 -.00132 .00101 -.00645 .09628 GRADIENT £ 26 NOV 75 1 (5GNB35) CARRIER DATA CA20 747/1 PARAMETRIC DATA REFERENCE DATA .008 .000 ELV-IB = BETAC = 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC SREF คนา-บ = .000 ELV-08 = 3.000 .0000 IN.YC 327.7800 IN. YMRP = LREF æ .000 RUD747 = .000 ZMRP . 190.8000 IN.ZC BREF = 2348.0400 IN. .0300 SCALE = GRADIENT INTERVAL = -1.00/ 5.00 RN/L ≈ 3.31 MACH .600 CLN-C CD-C CSL-C CYN-C CL-C CEL-C CY-C CA-C CLM-C **ALPHAW** CN-C .00250 -.08040 .04505 -.00046 .00250 .08548 -.00641 .03801 -.13455 2.000 .08859 .00262 -.00024 .28035 .04801 -.00036 .00261 -.00735 .28435 .02473 -.19169 4.000 .00272 -.08059 .47425 .05714 .00266 -.00868 -.00082 .47682 .00391 -.24007 6.000 .00294 .00022 .07709 .66839 .00292 -.00012 .67379 .85645 -.01952 -.26561 -.00888 8.000 -.00019 .00348 .12498 .84633

-.01043

-.00951

~.00047

-.25321

-.28933

-.02857

-.00069

-.00126

.00005

.00339

.00304

TABULATED SOURCE DATA - CA20

-.02609

-.04026

-.00664

10.000

12.000

GRADIENT

1.01314

.09788

PAGE 921

.00329

.00005

.17255

.00148

.99749

.09743

-.00085

TABULATED SOURCE DATA - CA20

DATE 26 NOV	75	IABULAT	60 300:10E 5			CA	RRIER DATA		(56N035	) ( 26 NOV	75 }
			CVSO	747/1				P	ARAMETRIC	DATA	
	REFERENCE D		<ul><li>1339.980</li></ul>	n in.xc				BETAC = ELV-0B =	3.000	ELV-1B = RUD-U =	.080 .000
IREF = 32	0.0000 SQ.FT. 7.7800 IN. 8.0400 IN. .0300	YMRP	= .000 = 190.800	O IN.YC	****			RUD-L =	.000	RUD747 =	.000
		•	RN/L =	3.27	RADIENT INTE	RVAL = -1.	007 0100				
MACH =	2.000 9.000 6.000 8.000 10.000 12.000	CN-C .10667 .29830 .49060 .68137 .66215 .00673	CA-C .03168 .01872 00228 02400 02634 02363 00648	CLM-C 16076 20384 23589 26539 27773 27849 02154	CY-C 10364 00793 09384 09081 09320 09168 .00286	CEL-C 01168 01276 01411 01486 01205 01476 00055	CYN-C .02520 .02532 .02025 .01891 .02015 .01847 00144	CL-C .10372 .25458 .45661 .67650 .85257 .59024 .09543	CD-C .03919 .04286 .05185 .07350 .12521 .18348 .00183	CSL-C 01052 01058 01171 01195 00830 01049 00018	CLN-C .02558 .02332 .02178 .02079 .0202 .02196 00118
					o. <b>s</b> .	Ċ	ARRIER DATA		(5GND3	7) ( 26 NO	v 75 i
			CA50	747/1	01 SI	<u>.</u>			PARAMETRIC	DATA	
IRFF a 2	REFERENCE 00.0000 SQ.FT 27.7800 IN. 48.0400 IN. .0300		<b>=</b> .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALFHAC = ELV-IB = ELEVON = FH1 =	4.000 .000 5.000 .000 .000	EETAC = ELV-08 = BETAO = DX =	.000 3.000 .000 .000
			RN/L =	3.29	GRADIENT IN	TERVAL =	.00/ 12.00				٠
MACH =	.800 ALPHAO 6.000 8.000 10.000 12.000 14.000 16.000 GRADIENT	CN-C .39303 .35227 .31676 .28219 .24779 .20964 .16819 01690	CA-C .01904 .01973 .01852 .01852 .01710 .01555 00016	CLM-C 22093 16943 11404 06154 02132 .03220 .10153	00668 00661 00669 00708 00577 00596	CBL-C .00035 .00022 .00054 .00050 .00055 .00050	CYN-C .00125 .0010 .0010 .0010 .0010 .0003 .0003	CL-C .37778 .34719 .31185 .27749 .24324 .20458 .16427	CD-C .05053 .05718 .05350 .04653 .04633 .04132 .03581	CSL-C .00042 .00029 .00047 .00059 .00050 .00062 .00051	CLN-C .00120 .00121 .00112 .00103 .00144 .00114 .00057 00003

TABULATED SOURCE DATA - CA20

PAGE 923

		CA20	747/1	01 51	CARRI	IER DATA		(5GN03E	3) ( 26 NOV	775 )
							P	ARAMETRIC	DATA	
	REFERENCE DATA								C11/-10 -	.000
SREF = LREF = BREF = SCALE =	2348.0400 IN. ZMF	9 = .00	000 IN.XC 000 IN.YC 000 IN.ZC			El	LPHAC = LV-08 = ETAO = X =	4.000 3.000 .000 .000	ELV-18 * ELEVON = PHI * DY =	5.000 .000 .000
JONEC -		RN/L =	3.33	GRADIENT IN	TERVAL = -5.00	/ 5.00				
МАСН	5 .600  BETA CN-C -10.000 .35409 -7.000 .30721 -5.000 .32671 -3.000 .32295 -2.000 .32145 .000 .32463 1.000 .32516 2.000 .32566 3.000 .33014 5.000 .33014 5.000 .33014 6.000 .33014 6.000 .33014 6.000 .33014 6.000 .33014	CA-C .00538 .00849 .01254 .01568 .01700 .01862 .01836 .01742 .01556 .01556	CLM-C 19255 16783 13941 12653 11653 11650 12309 18504 .00001	.12212 .08406 .04723 .02902 01075 02790 04690 05730 10105	.02787 - .02151 - .01553 - .00868 -	CYN-C .03542 .02594 .01762 .01039 .00671 .00825 .00692 .01040 .01479 .01996 .03554	CL-C .35035 .35035 .35233 .31827 .31665 .31966 .32021 .32181 .32545 .33382 .35761	CD-C .04398 .04535 .04824 .05094 .05205 .05396 .05396 .05302 .05150 .04833 .04312	CSL-C .02402 .01867 .01352 .00750 .00494 00454 00144 001447 00147	CLN-C 03818 02916 01921 01123 00732 .00626 .01099 .01561 .02146 .03816

DAIC ED MOT 10										e err
		CA50	747/1	01 51	C#	ARRIER DATA		(5GN039	07 85 )	V 75 )
REFERENCE C	ATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	XMRP YMRP	= 190.800	O IN.YC	COADIENT IN	TERVAL = -5	.nn/ 5.00	ALPHAC = ELV-0B = EETAO = DX =	4.000 3.000 .000 .000	DY = PHI = ETEACN = ETA-18 =	.000 5.000 .000 10.000
		RN/L =	3.35	CHADIEN IN	IEMARE - S					
-10.000 -7.000 -5.000 -3.000 -2.000 .000 1.000 2.000 3.000 5.000	CN-C .35407 .3516 .3316 .33108 .32082 .33028 .33073 .33041 .33126 .33540 .35290 .0005	CA-C .00915 .01102 .01459 .01751 .01853 .01976 .01973 .01935 .01935 .019371 .00177	CLM-C 23037 20724 19068 15500 15607 12046 112650 11037 11037 14343 .00834	CY-C .15681 .10549 .06781 .02978 .01298 01805 03037 04516 06166 09993 19808 01615	CEL-C .03280 .02555 .02101 .01479 .01165 .00543 .00390 .00133 00113 00672 01970 00273	CYN-C 03259 02521 01712 00899 00572 00055 .00108 .00310 .00618 .01402 .03572 .00292	CL-C .34996 .33397 .33029 .32464 .32516 .32562 .32534 .32532 .33088 .34950	CB-C .04770 .04795 .05109 .05353 .05439 .05557 .05574 .05532 .05419 .05017 .04041	CSL-C .02922 .02377 .01902 .01373 .01110 .00640 .00408 .00176 00411 00499 01577	CLN-C035850279501927010460055400119 .00302 .00630 .01559 .03776
		CA20	747/0	01 S1 AT3	8 AT39 C	ARRIER DATA	1	(5GN04		OV 75 3
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.FT LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	YMRP	= .00	00 1N.XC 00 1N.YC 00 1N.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	.000 .000 5.000 .000	EETAC = ELV-0B = MACH = PHI = DY =	000. 000. 000. 000.
		RN/L □	3.37	GRADIENT IN	ITERVAL = -1	.00/ 4.00				
ALPHAO = 8.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .05543 .05967 .07451 .10171 .14532 .16082 .12584 .08441	CA-C .02725 .02813 .02856 .02979 .03058 .03034 .02264 .00029	CLM-C .03539 .02346 .01928 01985 07908 10188	00558 00476 00721 00848 00853	CBL-C .00060 .00073 .00039 .00039 .0004 00018 .00195	CYN-C .00159 .00113 .00071 .00214 .00305 .00308 00273	CL-C .05281 .05601 .07184 .09899 .14258 .15809 .12336	CD-C .03298 .03430 .03492 .03704 .03922 .03944 .03067	CSL-C .00063 .00074 .00083 .00044 .00011 00010 .00164	CLN-C .00165 .00109 .00067 .0021: .00303 .00307 00281

= - . . . . .

TABULATED SOURCE DATA - CA20

DATE 26 NOV 75 (5GN041) ( 25 NOV 75 ) 747/0 OI SI AT38 AT39 CARRIER DATA CA20 PARAMETRIC DATA REFERENCE DATA 4.000 HETAC = ALPHAC \* 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. XMRP 3.000 ELV-03 = .000 ELV-IB = YMRP .0000 IN.YC = .600 LREF \* 327.7800 IN. MACH = 5.000 ELEVON = BREF = 2348.0400 IN. ZMRP = 193.8000 IN.ZC .000 PHI BETAO = .000 .000 .0300 SCALE = .000 DY RN/L = 3.27 GRADIENT INTERVAL = -1.00/ 4.00 ALFHAO \* 12.000 CSL-C CLN-C CD-C CL-C CYN-C CBL-C CY-C CLM-C CN-C CA-C .00064 DZ .36828 .03969 .00072 .00073 .00070 -.00639 .37150 -.04669 -.00102 .000 .00113 .04189 .00066 .00120 .39118 .00059 -.00675 -.04686 .38455 -.00012 3.000 .00046 .00177 .04513 .00032 .00182 .40314 -,07035 -.00749 .00093 7.500 .40672 .00246 .00021 .04859 .00001 .00248 .43344 -.00882 -.11192 .43721 .00142 .00299 15,000 -.00009 .05190 .00298 .47612 -.00034 -.00902 .00054 -.16189 .48000 .00300 30.000 .05288 -.00020 .50407 .00298 -.00045 -.00900 -.00119 -.19045 .50790 45.000 .00300 -.00030 .52235 .00297 -.00890 -.00055 .52613 -.00245 -.21149 .00016 60.000 .00073 -.00002 .00430 .00016 -.00012 -.00004 -.00006.00030 .00435 GRADIENT (56N042) ( 26 NOV 75 ) CARRIER DATA CAPO 747/0 OI SI AT38 AT39 PARAMETRIC DATA REFERENCE DATA .000 BETAC = 8.000 ALPHAC = XKRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. ELV-OB = 3.000 ELV-IB = .000 YMRP = .0000 IN.YC .600 LREF = 327.7800 IN. MACH = ELEVON = 5.000 ZMRP 190.8000 IN.ZC BREF = 2348.0400 IN. .000 .000 PHI BETAO = .0300 .000 SCALE = .000 DY RN/L = 3.33 GRADIENT INTERVAL = -1.00/ 4.00 CLN-C ALPHAO = 16.000 CSL-C CD-C CYN-C CL-C CBL-C CY-C CA-C CLM-C .0.251 CN-C DZ -.00000 .07746 .00247 .65590 -.01022 -.00033 -.03699 -.13826 .66067 .00212 .000 .00010 .08154 .66932 .00210 -.00972 -.00016 -.03500 -. 14161 .67360 3.000 .00021 .00165 .08744 .69700 .00165 -.14793 -.00914 .00003 -.03223 7.500 .69301 .00262 .09368 -.00006 .71781 .00256 -.17725 -.01036 -.00040 15.000 .72443 -.03116.00360 .10092 -.00022 .00350 .76455 -.00072 -.01164 -.03171 -.22614 30.000 .77171 -.00029 .00324 .10535 .79345 -.00073 -.01086 -.24898 -.03206 45.000 .80096 -.00016 .00311 .10881 .01098 -.01021 -.00058 .00303

-.26089

-.00112

.00016

-.03153

.00066

.81682

.00431

60.000

GRADIENT

PAGE 925

-.00013

.00003

.00136

.00414

-.00012

DATE SO NOV 73	INCOLMI	ED SOUNCE DAIN - C	MEG						
		CA20 747/0	01 SI AT38	AT39 C	ARRIER DATA		(56N04)	s) (26 NO	IV 75 )
REFERENCE D	ATA						PARAMETRIC	DATA	
SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. EREF = 2348.0400 IN. SCALE = .0300	YMRP	= 1339.9000 IN.X0 = .0000 IN.Y0 = 190.8000 IN.Z0	;			ALPHAC = ELEVEN = EETAO = DX =	4,000 ,000 5,000 -5,000 ,000	BETAC = ELV-OB = MACH = PHI = OY =	-5.000 3.000 .600 .000
		RN/L = 3.34	GRADIENT INT	ERVAL = -1	.00/ 4.00				
.080 3.000 7.500 19.000 30.000 95.000	.39324 .42151 .45120 .49009 .51580 .53177	CA-C CLM-C003980454500457067400092905350004721776700647200340078021563	.08571 .08384 .07755 .07198 .07459 .07620	CBL-C .01265 .01446 .01520 .01524 .01479 .01569 .01611	CYN-C 00929 01550 01626 01395 01127 01289 01335 00207	CL-C .39922 .39323 .41835 .44787 .4858 .51243 .52847	CB-C .03695 .03835 .04114 .64446 .64737 .04815 .04837 .00847	CSL-C .01150 .01265 .01333 .01361 .01343 .01437 .01464 .00039	CLN-C 01054 01760 01782 01553 01452 01501 00212
		CA20 797/0	02 S1 AT38	AT39 C	ARRIER DATA		(5GN04	4) ( 26 NO	DV 75 1
rzference e	DATA						PARAMETRIC	DATA	
EREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. EREF = 2348.0900 IN. SCALE = .0300	. IMRP YMRP ZMRP	= 1339.9000 IN.X = .0000 IN.Y = 190.8000 IN.Z	:			ALPHAC = ELV-1B = ELEVON = BETAO = DX	4.000 .000 5.000 -5.000	BETAC = ELV-CB = MACH = FHI = DY =	-5.609 3.000 .600 .000
		RN/L = 3.33	GRADIENT INT	ERVAL1	4.00				
.900 3.800 7.500 15.000 20.000	CN-C .36322 .59763 .51579 .44748 .48772 .51397	CA-C CLM-C 003160548 003150721 003011050 003301432 004671836 005062046 007252186	0 .07901 9 .07846 9 .07462 3 .07630 2 .07595	CBL-C .81199 .01338 .01393 .01424 .01544 .01600	CYN-C 00554 01048 01234 01316 01316 01346	CL-C .36022 .36450 .41252 .44410 .46429 .50867	CD-C .03648 .03695 .04187 .04769 .04726 .04827	CSL-C .01123 .01210 .01246 .01284 .01369 .01442	CLN-C 00554 01189 01380 01295 01470 01511

60.000

GRADIENT

.37784

.00309

.02359

.00013

-.16841

-.00007

1ABULATED SOURCE DATA - CA20

PAGE 927 (5GN045) ( 26 NOV 75 ) CARRIER DATA 747/1 01 SI AT38 AT39 PARAMETRIC DATA REFERENCE DATA BETAC = .000 .000 ALPHAC = SREF 5500.0000 SQ.FT. XMRP 1339,9000 IN.XC 3.000 .000 ELV-08 = ELV-IB = .0000 IN.YC YMRP LREF 327.7800 IN. .600 5.000 MACH = ELEVON = ZMRP = 190.8000 IN.ZC BREF = 2348.0400 IN. .000 PHI BETAD . .000 SCALE = .0300 .000 OF POOR OTTO .000 GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.23 POOR QUALITY 8.000 CLN-C CSL-C CL-C CD-C CYN-C CY-C CBL-C ÐΖ CN-C CA-C CLM-C .00055 -.08422 .04797 .00028 -.00547 .00026 .00068 .07769 .000 -.08092 .04685 .00039 .00090 .00093 -.07339 .04928 .06284 -.00567 .00039 3.000 -.07005 .04779 .05010 .00023 .00188 -.06032 .00191 7.500 -.05696 .04816 .04882 -.00713 .00019 .00240 .00010 -.03952 -.00763 .00004 .00242 15.000 -.03610 .04994 .00961 .05429 -.00009 .00287 -.00798 -.00016 .00288 -.04045 -.00844 30.000 -.00455 .05057 -.00035 .00342 .05471 .00343 .01403 -.06414 -.00956 -.00045 45.000 .01745 .05025 .05225 -.00076 .00489 .00488 .05572 -.00090 -.01297 .05897 +.10319 60.000 .04647 .00008 .00351 .00044 .00004 .00008 .00004 -.00522 -.00007 GRADIENT .00362 .00031 ( 28 NOV 75 ) (50N046) 01 S1 AT38 AT39 CARRIER DATA CA20 747/1 PARAMETRIC DATA REFERENCE DATA .000 4.000 BETAC ALPHAC = XMRP 1339.9000 IN.XC 5500.0000 SQ.FT. -3.000 .000 ELV-09 = ELV-IB = YMRP \* .0000 IN.YC LREF = 327.7800 IN. MACH = .600 ELEVON = 5.000 BREF = ZMRP 190.8000 IN.ZC 2348.0400 IN. .000 BETAO = .000 PHI 12 SCALE = .0300 .000 .000 DY GRADIENT INTERVAL = -1.00/ 4.00 RN/L = 3.33 ALPHAO = 12.000 CLN-C CSL-C 0-00 CBL-C CYN-C CL-C CY-C DZ CN-C CA-C CLM-C .00036 .00009 .22605 .05159 -.00405 .00040 .00014 .23129 -.00265 .02468 .000 .00060 .05290 .00025 3.000 7.500 .00025 .00064 .23523 -.00286 -.00463 .24056 .02526 15100. -.00553 .00123 .25282 .05586 .00013 .00006 -.02419 .25935 .02643 .00002 .00198 .06010 -.00684 -.00013 .00199 .28247 .20026 .02768 15.000 .00278 .32578 .06321 -.00037 -.12040 -.00750 -.00060 .00274 30.007 .33165 .02644 00272 -.00041.35500 .06433 -.14940 .00268 .36081 .02469 -.00751 -.00053 45,000

-.00733

-.00019

-.00061

-.00005

-.00040

-.00003

.06494

.00044

.37205

.00305

.00257

.00017

.00261

	CA20 747/1 OI 51 AT38 AT39 CARRIER DATA	(5GN047) ( 26 NOV 75 )
REFERENCE DATA		PARAMETRIC DATA
SREF = 5500.0000 SQ.FT. XMRP LREF = 327.7800 IN. YMRP ERFF = 234B.0400 IN. ZMRP SCALE = .0300	= .0000 IN.YC = 190.8000 IN.ZC	ALPHAC = 8.000 BETAC = .000 ELV-1B = .000 ELV-0B = 3.000 ELEVON = 5.000 MACH = .600 BETAO = .000 PHI = .000 DX = .000 DY = .000
	RN/L = 3.25 GRADIENT INTERVAL = -1.00/ 4.00	
ALPHAO = 16.000  DZ	CA-C CLM-C CY-C CBL-C CYN-C018461135400853 .00016 .0010701792115480085900003 .0014701579128750076300006 .0010201624155660097400059 .0024201782196180110400108 .0033601925218240106100125 .0032201931230840102400139 .002690001800065 .0000500006 .00013	CL-C         CD-C         CSL-C         CLN-C           .56262         .08031         .00024         .80105           .57667         .08323         .00012         .00148           .59397         .08831         .00002         .80164           .62310         .09274         .00027         .00251           .67352         .09861        00059         .00352           .70225         .10412        00079         .00341           .73148         .10778        00098         .00311           .00468         .00097        00094         .00014
	CARO 747/1 OI SI AT38 AT39 CARRIER DATA	(5GND48) ( 26 NOV 75 )
		DICHETOLO DATA
REFERENCE DATA		PARAMETRIC DATA
REFERENCE DATA  SREF = 5500.0000 SQ.FT. XKRP LREF = 327.7800 IN. YMRP SREF = 2348.0400 IN. ZMRP SCALE = .0300	- 1000 IN 70	ALPHAC = 4.000 BETAC = -5.000 ELV-18 = .000 ELV-08 = 3.000 ELEVON = 5.000 MACH = .600 BETAO = -5.000 PHI = .000 DX = .000 DY = .000
SREF = 5500.0000 SQ.FT. XKAP LREF = 327.7800 IN. YMAP SREF = 2348.0400 IN. ZMAP	- 1000 IN 70	ALPHAC # 4.000 BETAC = -5.000 ELV-IB = .000 ELV-OB = 3.000 ELEVON = 5.000 MACH # .600 BETAO = -5.000 PHI = .000

TABULATED SOURCE DATA - CARD

( 26 NOV 75 )

			CA20	747/1	01	SI	С	ARRIER DATA		(5GN049	3) (26 NOV	75 7
	REFERENCE DA	<b>Λ</b> ΤΔ							F	ARAMETRIC	DATA	
LREF .	300.0000 SQ.FT. 327.7800 IN. 348.0400 IN. .0300	XMRP = YMRP = 2MRP =	1 1 .	IN.YC					ALPHAC = ELV-IB = ELEVON = BETAO = DX =	.000 .000 5.000 .000	BETAC * ELV-OB * MACH = PHI = DY =	.000 3.008 .600 .000
			RN/L =	3.24	GRAD	DIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	.0000 3.0000 7.5000 15.000 .0 30.000 .0 45.000 .0	02045 01950 01933 00567 03185 05941 09508	.04331 .04310 .04317 .04242 .03881 .00827	CLM-C 03203 02434 03724 06425 09992 13796 14190 00087	•	CY-C 00518 00487 00554 00693 00717 01018 02876 00006	CBL-C .00049 .00043 .00028 00042 00042 00794 00004	CYN-C .00889 .00104 .00155 .00228 .00287 .00274 00613	CL-C 02366 02282 01355 .00244 .02663 .05630 .09302 .00140	CD-C .04635 .04656 .04658 .04731 .04747 .04482 .01554	CSL-C .00050 .00044 .00024 .00004 00035 00193 00918 00003	CLN-C .00085 .00101 .00153 .00227 .00285 .00279 00587
			RN/L =	3.31	GRA	DIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	.000 3.000 7.500 15.000 30.000 45.000	N-C 10995 09962 09506 05018 0950 01811 04941 00331	CA-C .03661 .03771 .03933 .04062 .04188 .04115 .03901 .00022	CLM-C .13767 .11999 .09742 .03364 03690 07023 09234 00534		CY-C 00578 00583 00583 00679 00766 00731 00524 .00008	CBL-C .00052 .00047 .00016 .00013 00045 00043 .00016	CYN-C .00073 .00084 .00114 .00211 .00272 .00263 .00160	CL-C 1126B 10259 08807 05329 01267 .01494 .04630 .00330	CD-C .03672 .03918 .03930 .04281 .04549 .04572 .04487	CSL-C .00052 .00048 .00018 .00018 00038 00036 .00019	CLN-C .00070 .00090 .00111 .00208 .00271 .00262 .00159
			RN/L =	3.27	GKA	DIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	3.000 7.500 15.000 50.000 45.000	N-C 17822 17138 16021 12602 06070 06104 00271	CA-C .03939 .03608 .03678 .03852 .04083 .04164 .04179	CLM-C .19578 .19571 .19300 .14222 .03135 02594 05527 00039		CY-C 00431 00413 00465 00469 00699 00791 00914 00005	CBL-C .0008 .00015 .00003 00021 0008 0008	CYN-C 00007 .00009 .00071 .00112 .00238 .00307 .00400	CL-C 18106 17425 16311 12900 06390 02420 00047 .00240	CD-C .03312 .03402 .03513 .03806 .04265 .04464 .04592	CSL-C .00008 .00012 .00008 .00805 00015 00040 00075	CLN-C 0009 .0007 .00059 .00110 .00237 .00307 .00402 .00011

		CA20 747/1	01 51	CARRIER DATA	(56N050) ( 26 NOV	75 )
	REFERENCE DATA				PARAMETRIC DATA	
LREF =	300.0000 SQ.FT. XKRP 327.7800 IN. YMRP 348.0400 IN. ZKRP .0300	= 1339.9000 IN.XC = .0000 IN.XC = 190.8000 IN.ZC		ALPHAC = ELV-IB = ELEVON = PTAO = DX =	.000 BETAC = .000 ELV-0B = 5.000 MACH = .000 PHI = 10.000 DY =	.000 3.000 .600 .000
		RN/L = 3.25	GRADIENT INTERVAL =	.00/ 12.00	• <del></del>	
ALFHAO =	6.000 DZ	CA-C	CY-C CBL-C00480 .0003800428 .0003100619 .0000500610 .000160073300021039700112018818058950002000004	CYN-C CL-C .0007001039 .0008000552 .0018200334 .00261 .01075 .00264 .02826 .01522 .01111 .0703314704 .00016 .00097	CD-C CSL-C .04561 .00038 .04595 .00031 .04636 .00009 .04730 .00020 .0467600015 .0470301068 .0471205649 .0001000004	CLN-C .00067 .00077 .00180 .00199 .00263 .01558 .07233
		RN/1 = 3.25	GRADIENT INTERVAL =	.00/ 12.00		
ALPHAO =	10.000  0Z  .00007658 3.00007374 7.50006490 15.0000386 45.0000386 60.000 02522 GRADIENT .00159	CA-C CLM-C .03455 .10445 .03615 .10203 .08472 .04025 .02462 .041903996 .0408109860 .0004500273	0175400368	CYN-C CL-C 0000807946 .0002707657 .0010706790 .0020104183 .0027800701 .00375 .01172 .00670 .02207 .00016 .00157	CD-C CSL-C .03592 .00064 .03752 .00043 .03955 .00023 .04284 .00024 .0450000011 .0454500092 .0456300346 .0005100005	CLN-C 00012 .00024 .00104 .00198 .00277 .00377 .00681
		RN/L = 3.23	GRADIENT INTERVAL =	.00/ 12.00		
ALPMAO =	14.000 DZ CN-C .00014460 3.00013653 7.50013010 15.00010037 30.00004719 45.00001414 60.000 .01202 GRADIENT .00189	CA-C CLM-C .03039 .22591 .03173 .20663 .03484 .19151 .03584 .12500 .04067 .02622 .0404802481 .0404705508	-00258 .00062 -00048 .00036 -00034 .0003 -00011 .00013 -00242 .00149	.0025701726 .00122 .0089	.03628 .00039 .04296 .00010 .04392 .00020 .04483 .00150	CLN-C 00085 00015 00010 .00136 .00196 .00254 .00115

TABULATED SOURCE DATA - CA20

(5GN051) ( 26 NOV 75 )

			CAZO	747/1	01 SI	C	ARRIER DATA		(50N051	) ( 26 NOV	75 )
		DATA							PARAMETRIC	DATA	
LREF = 3	REFERENCE 500.0000 SQ.F 327.7800 IN. 348.0400 IN. .0300			O IN.XC O IN.YC O IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	.000 5.000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 .000
			RN/L =	3.24	GRADIENT INTE	RVAL *	.00/ 12.00				
ALPHAO =	6.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .00234 .00679 .01274 .02226 .03456 .07119 .17261	CA-C .03990 .04064 .04107 .04170 .04122 .04869 .07908 .00015	CLM-C 06945 08150 08964 10170 11127 20480 53703 00262	CY-C 00514 00371 00419 00565 00715 00320 .01613 .00011	CBL-C 50005 .00025 .00022 .00006 00057 .00165 .01198	CYN-C .00115 .00088 .00112 .00171 .00243 .00169 00178	CL-C 00077 .00355 .00958 .01907 .03139 .06773 .16803	CD-C .0+392 .0+482 .0+6+5 .0+6+2 .0+6-37 .05637 .08302 .00020	CSL-C 00003 .00026 .00023 .00010 00051 .00169 .01188 .00003	CLN-C .00113 .00085 .00110 .00169 .00243 .00182 00221
			RN/L =	3.25	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	10.000 OZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C 05547 05310 04414 02376 .00474 .02121 .03666 .00155	CA-C .03565 .03583 .03707 .03939 .04028 .04074 .04237	CLM-C .08304 .08077 .05942 .00769 04665 07591 11402 00327	CY-C .00061 00272 00465 00475 00700 00762 00917 00068	CBL-C .00048 .00041 .00026 .00007 00024 00048 00098 00003	CYN-C 00041 .00033 .00109 .00147 .00275 .00300 .00373	CL-C 05840 05603 04712 02683 .00161 .01806 .03344 .00154	CD-C .03766 .03791 .03947 .04250 .04439 .04542 .04758 .0025	CSL-C 00044 .00039 .00027 .00010 00017 00040 00068	CLN-C 00044 .00030 .00097 .00145 .00274 .00300 .00375
			RN/L =	3.28	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 ED.000 GRADIENT	CN-C 10361 10670 10116 07456 03215 00709 .00909	CA-C .04320 .03547 .03522 .03583 .03914 .03963 .03837 00140	CLM-C .11732 .16870 .18053 .11043 .01949 02606 04447 .00797	00554 00643 00624	CBL-C 00150 00020 .00057 .00026 0008 00023 00029	CYN-C .00336 .0015 .0015 .00090 .00212 .00262 .00253	CL-C 10677 10959 10334 07748 03521 01018 .00601 .00095	CD-C .04352 .03569 .03264 .03717 .04196 .04332 .04323	CSL-C 00141 00018 .00055 .00027 000017 000013 .00025	CLN-C .00339 .00139 .00011 .00087 .00210 .00261 .00252 08043

TABULATED SOURCE DATA - CA20

( 26 NOV 75 ) (5GN052)

			CA20	747/1	01 51		CARRIER DATA		(5GN05a	() 1 EG NOV	,,
									PARAMETRIC	DATA	
LREF = 3	REFERENCE 500.0000 SQ.FT 527.7800 IN. 548.0400 IN. .0300	, XMRP	.0000	IN.YC				ALPHAC = ELV-1B = ELEVON = BETAO = DX	4.800 .000 5.000 .000	BETAC = ELV-CB = MACH = PHI = DY =	.000 3.000 .600 .000
			RN/L =	3.22	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	B.000 DZ .000 3.000 7.500 15.000 30.000 95.000 60.000 GRADIENT	CN-C .38912 .39286 .39977 .40910 .42743 .44653 .46929 .00143	.01839 .01739 .01615 .01301	CLM-C 21567 21246 21397 21831 21853 22402 30120	CY-C 00727 00752 00798 00859 00922 01037 01215 00010	CBL-C .00013 00017 00043 00044 00064 000416	CYN-C .00140 .00181 .00230 .00295 .00318 .00435 .00955	CL-C .38343 .38725 .38423 .40364 .42220 .44144 .46385 .00145	CD-C .06310 .06257 .06229 .06203 .06008 .06045 .06493	CSL-C .00023 .00012 .00002 00017 00016 00024 00319 00003	CLN-C .00137 .00180 .00230 .00237 .00320 .00438 .00993 .00012
			RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.00				
ALFHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .30728 .31654 .33395 .35659 .36746 .40779 .42862 .00355	.01728 .01641 .01439	CLM-C 08461 09995 15137 18127 19919 22342 00474	00631 00697 00824 00836 00901	CBL-C .00044 .00026 .00011 00051 00078 00161	CYN-C .00099 .00067 .0017 .00203 .00268 .00301 .00372	CL-C .30219 .31342 .32879 .35139 .38230 .40269 .42355 .00354	CD-C . 05315 . 05406 . 05530 . 05680 . 05902 . 05950 . 05932	CSL-C .00840 .00027 .00011 00000 00028 00051 00127 00004	CLN-C .00003 .00053 .00145 .00203 .00271 .00307 .00396 .00019
	• •		RN/L =	3.24	GRADIENT INT	ERVAL =	.00/ 12.00			•	
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .22770 .23761 .25580 .29239 .34265 .37373 .39488 .90377	CA-C .01535 .01533 .01530 .01559 .01621 .01412 .01233 .00013	CLM-C .01983 .00877 01480 07045 13266 16241 17504 0046	700604 000665 500692 500851 700845 400647	CBL-C .00069 .00027 .00002 00059 00056 00019	.00069 .00138 .00167 .00282 .00285	CL-C .22331 .23317 .25116 .28742 .33765 .36968 .36990	CD-C .04227 .04329 .04616 .05127 .05515 .05674 .00053	85000. 82000. 82000. 12000. 10000.	CLN-C 00036 .00065 .00136 .00136 .00285 .00286 .00286 .00286

....

## TABULATED SOURCE DATA - CAZO

.00227

GRADIENT

.00042

-.00426

( 26 NOV 75 ) (EGN053) CARRIER DATA 747/1 01 SI PARAMETRIC DATA REFERENCE DATA 4.000 BETAC = ALPHAC = 5500.0000 SQ.FT. 327.7800 IN. **XMRP** 1339.9000 IN.XC 3.000 ELV-OB = SREF .000 FLV-IB = YMRP .0000 IN.YC .600 5.000 MACH LREF = ELEVON = 190.8000 IN.ZC ZMRP Pin 1 .000 2348.0400 IN. .000 BREF = BETAO # .000 SCALE = .0300 DY DX 10.000 ORIGINAL = Ğ. GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.27 FOOR CLN-C 6.000 CD-C CSL-C CL-C CBL-C CYN-C CY-C CLM-C CN-C CA-C -.00000 .00110 DZ .39328 .36217 -.00007 .00111 -.00624 .39881 .40079 -.23158 .01737 .000 -.00000 .00169 .05193 .39529 -.00013 .00169 -.00690 -.226213.000 7.500 .01692 .00222 KILTYND II. EDVA -.00009 .40003 .06176 .00221 -.00027 -.00761 -.22588 40548 .01625 .00248 -.00024 .06146 .00245 -,00045 -.00788 41390 .01507 -.22868 .00281 15.000 -.00052 .42552 .06100 -.00076 .00275 .01284 -.23453 -.008!1 30.000 .43075 -.00460 .00544 .44725 .06455 .00494 -.00509 -.32451 -.00672 .01229 .01409 45.000 .45274 -.01624 .07672 .48031 .01054 -.01739.00008 .02274 -.59473 .00015 .46689 60.000 -.00005 -.00001 .00014 -.00018 -.00003.00071 -.00015 .00090 GRADIENT .00/ 12.00 GRADIENT INTERVAL = 3,23 RN/L = CLN-C CSL-C ALPHAO = 10.000 CD-C CL-C CBL-C CYN-C CLM-C CY-C CN-C CA-C .05339 .00019 .00084 .33297 .00015 .00087 -.00730 -,10889 .000 .33792 .01494 .00003 .00161 .33508 .00162 -.00009 -.00817 .01541 -.10651 .34008 .00253 3.000 .05527 -.00018 .00251 .34672 -.12909 -.00039 -.00922 .01538 7.500 .35179 .00305 .36455 .39089 -.00045 .05576 .00300 -.00957 -.00071-.15598 .01499 .36969 .00340 15.000 -.00051 .05771 .00334 -.00081 .01318 -.01023 -..8574 .00355 .39597 30.000 .40851 .05839 -.00083 -.00115 .00346 -.20504 -.00978 .41355 .00397 45.000 -.00165 .05945 .42419 -.00202 .00379 -.00963 -.23244 .01143 60.000 .42927 -.00005 .00022 .00025 .00189 -.00025 .00022 -.00007.00005 -.00208 .00191 GRADIENT .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.23 CLN-C ALPHAO = 14.000 CSL-C CD-C CBL-C .00059 CL-C CYN-C CLM-C CY-C CA-C -.00013 CN-C .00053 DΖ .26495 .04105 -.00005 .02663 -.00576 .26898 .00977 .00115 .000 .04242 .00014 .00007 .00117 -.00769 .02515 .27159 .01068 .00210 3.000 .04588 -.00008 .28106 .00210 -.00025 -.00866 .01290 -.00390 7.500 .28551 -.00025 .00297 .05070 .31038 -.00051 .00294 -.00961 -.06703 .01463 .00359 15.000 .31517 -.00056 .05438 .00352 .35155 -.00088 -.01054 .01390 -.1326130.000 .35650 .05572 -.00041 -.00005 .00332 .37804 -.00976 -.00967 -.00070 .00327 -.16139 45.000 .39299 .01254 .00304 .39526 -.00032 .00304 -.17259 60.000 .40017 -.00008 .00029 .00065 .00222

-.00037

-.00011

.00028

933

TABULATED SOURCE DATA - CA20

CARRIER DATA

RRIER DATA (50N054) ( 26 NOV 75 )

PAGE 934

			CASO	747/1	01 5	1	,	CARRIER DATA		1,00,400	, , , , , , , , , , , , , , , , , , , ,	
	REFERENCE	DATA								PARAMETRIC	DATA	
LREF =	500.0000 SQ.F7 327.7800 IN. 348.0400 IN. .0300	r. XMRP YMRP		00 IN.XC					ALPHAC = ELEVON = BETAO = DX =	4.000 5.000 5.000 20.000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .000 .000
			RN/L □	3.25	GRAD1	ENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	5.000 DZ .000 3.000 7.500 15.000 50.000 60.000 GRADIENT	CN-C .40726 .40888 .41808 .41809 .43002 .44086 .44614 .00065	CA-C .01511 .01498 .01475 .01409 .01206 .01123 .01490 00005	CLM-C 25713 25235 24833 24590 23777 24336 27867	-, -, -, -,	Y-C 00609 00655 00698 00724 00826 00937 01047 00012	CBL-C 00004 00014 00027 00061 00155 00277 00003	CYN-C .00091 .00132 .00174 .00209 .00258 .00400 .00885	CL-C .40191 .40354 .40674 .41279 .42487 .43554 .44060	CD-C .05080 .06085 .06095 .06093 .06015 .06044 .06466 .00002	CSL-C .00000 00006 00014 00020 00039 00119 00102	CLN-C .00090 .00132 .00175 .00211 .00262 .00413 .00908
			RN/L =	3.27	GRADI	ENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .35553 .36084 .36965 .38324 .40409 .41826 .43090	CA-C .01233 .01268 .01318 .01334 .01202 .01087 .00999	CLM-C 10856 12022 14408 16437 19027 19031 20269 00477	   	Y-C 00827 00868 00981 01067 01026 00975 00856	CBL-C 00011 05030 00079 00105 00082 00007	CYN-C .00171 .00213 .00275 .00330 .00341 .00334 .00321	CL-C .35076 .35600 .36471 .37822 .39909 .41330 .42596 .00187	CD-C .05263 .05354 .05496 .05653 .05740 .05774 .05818	CSL-C .00002 00013 00046 00050 00074 00052 .00022 00007	CLN-C .00171 .00214 .00280 .00335 .00349 .00340 .00315
			RN/L "	3.27	GRAD	ENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .28943 .29758 .31320 .33678 .36980 .39044 .40721	CA-C .00912 .00941 .01068 .01241 .01234 .01169 .01103	CLM-C .04492 .03086 01172 06995 16125 18366 09776		CY-C .00789 .00765 .00879 .01016 .01032 .01032 .00956 .00013	CEL-C 00015 .00005 00031 00069 00107 00116 00133	.00319	CL-C .26535 .29343 .30683 .33210 .35555 .35554 .40229	CD-C .04254 .04367 .04657 .05076 .05469 .05659 .06059	00039 00075 00083 00164	CLN-C .00124 .00151 .00225 .00327 .00352 .00359 .00331

1

TABULATED SOURCE DATA - CA20

.00342

GRADIENT

-.00018

( 28 NOV 75 ) (59NB55) CARRIER DATA 747/1 01 51 CA20 PARAMETRIC DATA REFERENCE DATA BETAC = 8.000 ALPHAC = 3.000 1339,9000 IN.XC ELV-OB = .000 XMRP 5500.0000 SQ.FT. ELV-IB = SREF \* .600 YMRP .0000 IN.YC MACH 5.000 327.7800 IN. ELEVON = LREF .003 ZMRP = 190.8000 IN.ZC PH! .000 BREF = 2348.0400 IN. BETAO = .000 .000 DY SCALE = .0300 3.22 GRADIENT INTERVAL = .00/ 12.00 RN/L = CLN-C CSL-C 3-G3 6.000 CL-C ALPHAO = CYN-C CEL-C .00208 14200. CY-C CLM-C -.00083 CA-C CN-C .11865 DZ .00189 .B1504 -.00107 -.01004 .82454 .81972 .81927 -.33039 -.000B1 -.02689 .11708 .000 .00222 .81042 -.00936 -.00111 .00279 -.31917 -.00090 -.02763.11703 3.000 .80993 .00258 -.00127 -.30830 -.00984 .D0334 -.00098 -.02761 .11609 7.500 .81296 .00311 -.00144 -.29530 -.01068 -.00103 .00341 -.02905 .82204 15.000 .81777 .11606 .00318 -.00150 -.27879 -.00986 -.00020 .00415 -.02992 .82678 .11890 30.000 .00404 .83539 -.000B1 -.00973 .00632 -.20702 .00819 .84463 -.03018 .12801 45.000 .00764 .85597 .00707 -.01153 .00009 -.00001 .86745 -.02495 .09034 -.00023 60.000 -.00063 .00009 -.00003 .00002 -.00009 .00290 -.60065 GRADIENT .00/ 12.00 GRADIENT INTERVAL = 3.25 RN/L = CSL-C CLN-C CD-C 10.000 CL-C ALPHAO = CYN-C CEL-C CY-C .00103 -.00027 CLM-C CA-C .10655 CN-C .74988 DΖ -.00034 .00095 -.00800 -.00037 .00187 -.02748 -.27819 .75927 .75332 .10563 .000 .00177 -.00058 -.00885 .00283 -.27327 .76167 .76971 -.02800 -.80044 .10764 3.000 .76040 .00270 -.01037 -.00081 .00335 -.27170 -.00042 -.02883 .77055 .10765 7.500 .00322 -.01074 -.00089 .00361 77882 -,03000 -.26842 -.00041 .78980 .80326 .11003 15.000 .0034B -.01080 -.00092 -.26574 -.00009 .00344 .79819 -.03100 .11202 30.000 .00337 -.00058 -.01035 .00329 -.25926 .00061 45.000 -.03137 .81178 .11455 .81431 .00333 .00013 -.00967 .00020 -,24345 -.03079 -.00002 .82311 .00142 .00007 60.000 .00023 -,00005 -.00032 .00082 -.00018 GRADIENT .00141 .00/ 12.00 GRADIENT INTERVAL = 3.27 RN/L = CLN-C CSL-C CD-C ALPHAO = 14.000 CL-C CYN-C CBL-C CY-C .00081 CLM-C .09195 .00023 CN-C CA-C .66940 DΖ .00003 -.00862 .00019 -.17420 .00158 .000 .67549 -.02771 .00011 .67621 -.00006 .00156 -.00959 -.17508 .00241 .68345 -.02754 .00009 .69348 .71689 .09566 3.000 -.00022 .00238 -.01015 .00352 -.02842 -.02979 -.19802 -.00016 .70083 .09840 7,500 .00343 -.00057 -.01155 .00403 -.21863 -.00036 .10296 .72436 .75168 15.000 .00390 -.00095 -.01197 .00370 -.23998 -.00023 -.03134 .10555 .75942 30.000 .77522 .00360 -.00076 -.24693 -.01104 .00351 -.08050 -.03189 45.000 .78322 .00336 .79321 .10955 -.00100 -.25928 -.01099 15000. +.00002 -.03195 60.000 .80148 .00338 .00049 -.00333 -.00005

-.00020

TABULATED SOURCE DATA - CARD

-.00009

.00217

GRADIENT

-.00326

CARRIER DATA

(56N056) ( 26 NOV 75 )

PAGE 936

### 747/1 01 SI CA20 PARAMETRIC DATA REFERENCE DATA BETAC = ALPHAC = 8,000 1339.9000 IN.XC 5500.0000 SQ.FT. 327.7800 IN. XMRP = 3.000 ELV-OB = SREF .000 ELV-1B = .0000 IN.YC YMRP = .600 MACH = LREF 5.000 ELEVON = ZMRP = 2348.0400 IN. 190.8000 IN.ZC .000 BREF = .000 PHI BETAD = .000 .0300 SCALE = 10.000 DY RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00 CLN-C ALPHAO = 6.000 .81238 .81012 CSL-C CD-C CBL-C -.00077 CYN-C CY-C CLM-C .00152 CA-C CN-C DZ .000 .11642 -.00062 -.00814 -.00840 -.00938 .00138 -.35265 .82153 -.00075 .00209 11555 -.00100 .00192 -.02909 -.34160 3.000 .00281 .81915 11515 -.00094 .81011 -.00131 .00259 -.02948 -.32624 7.500 .00323 .81908 .61214 .81676 .81186 -.00054 .11513 -.02986 -.03089 -.03037 -.02438 -.00998 -.0013B .00301 .82107 -.30945 -.00105 15.000 .00349 .11489 .00325 -.01030 -.00153 -.28566 30.000 ,82558 .00424 .11456 -.00032 .00422 -.23282 -.01181 45.000 .82070 -.00004 .00707 .78128 .11524 .00441 .00793 -.08622 -.01633 .79070 .00017 60.000 -.00028 -. 10016 .00016 -.00007 -.00011 .00351 -.00017 -.00030 GRADIENT .00/ 12.00 3.24 GRADIENT INTERVAL = RN/L = CLN-C $\Delta LPHAO = 10.000$ CBL-C CL-C .76848 CD-C CYN-C CLM-C CY-C .00032 CA-C .00147 CN-C .10991 .00150 -.00897 - 28683 .77697 -.02849 .00234 .76982 .10855 -.00011 .00233 3.000 7.500 15.000 30.000 -.2B007 -.00994 .77826 .00004 .00318 .77388 .10851 .00313 -.01094 -.00040 -.27424 -.02973 .00343 .78225 .10941 -.00004 .78164 .7958° .80653 -.00053 -.00069 .00336 -.01108 .79004 -.03019 .00391 .11093 -.00014 .00372 - 26931 -.01173 -.03116 .00369 .80433 .11270 -.00004 -.00057 .00361 -.25913 -.01101 -.03127 .81513 .00344 45.000 -.00002 .11393 .00338 .81314 -.00051 -.24386 -.00996 -.03121 .00022 60.000 .82185 -.00004 -.00004 .00074 .00021 -.00026 -.00008 -.00017 .00165 GRADIENT .00072 RN/L = 3.23 GRADIENT INTERVAL = .00/ 12.00 CLN-C ALPHAO = 14.000 CSL-C CD-C .00028 CYN-C .000 .000 3.000 7.500 CY-C CLM-C .00044 CN-C CA-C .00152 .09700 .70630 .00157 -.16816 -.01016 .71369 -.02932 .00227 .71172 .09795 .00006 .00229 -.17550 -.010BI -.02934 .71920 .00300 .00020 .72231 .09921 -.01146 -.00021 .00298 -.19231 .72984 -.00004 .00392 73846 .10121 -.00059 .00375 15.000 30.000 45.000 60.000 -.01234 -.03076 -.21025 ,00419 -.00023 .10457 .76364 -.00085 .00408 -.01267 -.23396 -.00015 -.00018 -.00003 .77147 -.03183 .79320 .00402 .10739 .00393 -.01173 -.24023 .79005 -.03224 .00378 14801. .00368 -.00073 -.01118 -.03220 -.24551 .80143 .00019 -.00007 .00019 -.00017

p= 7.7%

TABULATED SOURCE DATA - CA20

-.03247

-.00001

.80224

.00149

60.000 GRADIENT

( 26 NOV 75 ) (5GN057) CARRIER DATA CAPO 747/1 OI SI PARAMETRIC DATA REFERENCE DATA BETAC 8.000 ALPHAC = 1339.9000 IN.XC .0000 IN.YC XMRP 5500.0000 SQ.IT. . ELV-08 = 3.000 ELV-IB = .000 LREF 327.7800 IN. YMRP .600 MACH ELEVON = 5.000 190.8000 IN.ZC SPEF = ZMRP = PH1 = 000 2348.0400 IN. 000.00 BETAC = SCALE = .0300 DY .000 밁 ORIGINAL GRADIENT INTERVAL = .00/ 12.00 RN/L ≖ 3.24 POOR QUALITY ALPHAO = 6.000 CLN-C CSL-C CD-C CL-C CYN-C CBL-C CLM-C CY-C CA-C CN-C .80120 .11384 -.00073 DZ .81102 .00104 -.00770 -.00082 -.03093 -.03093 -.3809B .81975 .000 .00178 .11345 -.00084 80880 .00160 -.00103 -.36477 -.00836 .81749 3.000 .00234 .11350 -.00085 .80841 -.00117 .00215 -.03081 -.34609 -.00910 .81712 7.500 -.00086 .00282 .81042 .11407 .00262 -.00123 15.000 30.000 45.000 60.000 -.00944 -.03060 -.32529 .81919 -.000B1 .00345 .11442 .81216 -.00129 -.01061 -.03056 -.29025 .82097 .00428 -.00141.11584 -.00202 -.00870 .00396 .82024 -.01167 .82918 -.03056 -.25069 -.00795 .00552 .12224 .00405 .87350 -.00976 .88274 -.03350 -.24461 .00015 -.20004 -.00033 .00014 -.00005 .00461 -.0001B GRADIENT -.00033 .00002 .00/ 12.00 GRADIENT INTERVAL = 3.27 RN/L = CLN-C ALPHA0 = 10.000 CSL-C CD-C CL-C CBL-C CYN-C CY-C CLM-C .00193 CA-C DZ CN-C .10771 -.00004 .77972 .00188 -.01000 -.00027 -.29984 .000 .78785 -.03153 -.00019 -.00038 .00283 .10799 -.00059 .78013 .00274 -.29177 -.01122 3.000 .78831 -.03133 .10867 .00339 .78427 -.01156 -.00085 .00325 -.03138 -.28512 7.500 .79250 -.00052 .00392 .78749 .79955 .00376 -.27516 -.26836 -.01263 -.00109 .79576 -.03141 .00399 15.000 -.00046 .11077 .00384 -.01242 -.00104 .80792 -.03196 .00410 30.000 .80880 -.00053 .11308 .00393 -.25606 -.00113 -.01175 -.03129 45.000 .81743 -.00099 .00365 .11326 .00342 .81294 -.00150 -.03183 -.24559 -.01024 .B2153 .40019 60.000 -.00004 .00063 .00013 -.00008 .00002 .00192 -.00020 .00064 GRADIENT 3.29 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAO # 14.000 CSL-C CLN-C **CD-C** CL-C CBL-C -.00014 CYN-C CY-C CLM-C CA-C CN-C .00006 .00172 DZ .09877 .72811 .00170 -.03137 -.03165 -.00979 .73547 .73958 .74657 -. 16794 .00274 .000 -.00807 .73219 .09921 .00268 -.00044 -.01123 -.17736 3.000 -.00004 .73906 .10057 -.00056 -.00074 -.00107 -.01213 7.500 15.000 -.03150 -.19043 .00409 .10233 -.00013 .00400 .75263 -.0127R .76024 -.03212 -.20831 .00441 .10517 -.00042 .77309 -.01317 -.01250 .00426 -.03288 -.22682 .78088 .00439 30.000 .10769 .10928 -.00022 .78735 -.00087 .00428 -.03287 -.23348 45.000 .79537 .08410 .00017 .79405 -.00043 -.00005 .00406

-.01163

-.00030

-,23119

-.00299

PAGE 937

.00024

.00025

.00024

-.00001

5///2 45 //5/				A. 51	,	CARRIER DATA		(5GN058	3) (26 NO	IV 75 )
		CA20	747/1	01 51	· ·	CARRIER DATA		-		
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP		0 IN.XC 0 IN.YC 0 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = OX =	4.000 .000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 .000 10.000
		RN/L =	3.34	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .32806 .33692 .35135 .36884 .39680 .41544 .43296 .00311	CA-C .01937 .01900 .01930 .01711 .01473 .01305 .01149 00014	CLM-C 13367 13715 15334 16942 19531 20717 21935 00270	CY-C 01459 01566 01831 01870 02005 01684 01335 00050 GRADIENT INT	CBL-C .00831 .00649 .00470 .00311 .00095 00126 00047	CYN-C 00417 00165 .00140 .00352 .00656 .00614 .00555 .00074	CL-C .32271 .33145 .34598 .36350 .39155 .41026 .42785	CD-C .05676 .05731 .05813 .05878 .05934 .05962 .05990	CSL-C .00778 .00623 .00477 .00340 .00158 .00047 00072 00039	CLN-C 00503 00233 .00089 .00316 .00642 .00611 .00564 .00578
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .23939 .25167 .27211 .30461 .35166 .37997 .39991	CA-C .01713 .01794 .01848 .01802 .01622 .01453 .01329 .00018	CLM-C 00134 02115 04995 09505 14983 17665 19237 00647	CY-C 02377 02073 02316 02710	CBL-C .01481 .01288 .00949 .00547 .00146 .00011 00038	CYN-C 0831 00604 0069 .00504 .00960 .00868 .00663	CL-C .23475 .24688 .26718 .29952 .34650 .37484 .39479 .00434	CD-C .04526 .04735 .05004 .05297 .05610 .05738 .05623 .00063	CSL-C .01380 .01212 .00931 .00591 .00240 .00097 .00027	CLN-C 00982 00736 00169 .00444 .00938 .00861 .00662

7.500

15.000

30.000

45.000

60.000

GRADIENT

.30338

.32752

.36527

.38880

.40594

.00267

r -

TABULATED SOURCE DATA - CA20

( 26 NOV 75 ) (5GN059) CARRIER DATA 747/1 01 51 CA20 PARAMETRIC DATA REFERENCE DATA BETAC = ALPHAC = 4,000 1339.9000 IN.XC XMRP = 5500.0000 SQ.FT. 3.000 SREF = ELV-OB = ELV-IB = .000 YMRP .0000 IN.YC LREF = 327.7800 IN. = .600 5.000 MACH ELEVON = 190.8000 IN.ZC BREF = 2348.0400 IN. ZMRP = PH! .000 .000 BETAO = .0300 10.000 SCALE = DY 10.000 .00/ 12.00 GRADIENT INTERVAL = 3.32 RN/L = ALPHAO = 10.000CLN-C CSL-C CD-C CYN-C CL-C CBL-C CY-C CLM-C CN-C CA-C -.00528 DZ .00629 .05586 -.00458 .34269 -.01053 .00686 -.13932 .000 .34785 .01638 -.00291 .0051B .05557 -.00234 .34789 .00551 -.01185 .35308 .01654 -.14172 3.000 .00005 .00480 .36076 .05714 .00048 .00403 -.01450 -.15757 7.500 .36595 .01576 .00247 .00293 .37464 .05818 .00278 .00270 -.17405 -.01594 .01535 15.000 .37983 .00619 .05973 .00106 39792 .00528 .00046 -.19389 -.01895 .01346 30.000 .40397 .00600 .05903 .00011 .41356 -.00047 .00599 .41866 -.21003 -.01650 .01212 45.000 .00558 .05932 -.00087 .00547 ,42708 -.00140 -.22778 -.01392 .01100 60,000 .00071 -.00030 .00244 .00017 -.00037 .00067 -.00053 .00245 -.00009 -.00252 GRADIENT .00/ 12.00 3.25 GRADIENT INTERVAL = RN/L = ALPHAO = 14.000 CLN-C CSL-C CL-C CD-C CBL-C .01274 CYN-C CY-C CA-C CLM-C CN-C DZ .01157 -.01129 .04513 .27928 -.01001 -.01131 -.02003 .28366 .01234 .000 -.00762 .04685 .00967 .28443 .01047 -.00656 -,02973 -.01235 .01351 3.000 .28897 -.00052 .04973 .00729

-.02062 -.02538

-.02725

-.02256

-.01676

-.00129

-.05502

-.09798

-.15184

-.17631

-.19424

-.00474

.01489

.01531

.01388

.01292

.01205

.00034

.00026

.00559

.00947

.00850

.00625

.0013B

.00735

.00414

.00069

-.00037

-.00076

-.00072

PAGE 939

.00512

.00934

.00628

.00145

.00465

.00162

.00047

-.00015

-.00057

.05269

.05520

.05670

.05762

.00062

.32260

.36028

.39379

.40092

		CAZO .	747/1	01 51		CARRIER DATA		(5GN06)	01 ( 26 NO	v 75 1
REFERENCE 1	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.FT LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	. XMRP	= 1339.9000 = .0000 = 190.8000	IN.YC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 .000
		RN/L =	3.23	GRADIENT INTE	RVAL =	.00/ 12.00				
.000 3.000 7.500	.76788 .77401 .78714 .80261 .81558 .82843	02869 - 02953 - 03047 - 03210 - 03296 - 03316 - 03291 - 00023 -	CLM-C .27504 .27510 .27975 .27834 .27654 .27000 .26021 .00064	CY-C 02165 02125 02013 02118 02249 01648 0093 .00021 GRADIENT INTE	CBL-C .00237 .00185 .00136 .00027 00136 00111 00080 00013	CYN-C 00099 .00076 .00206 .00402 .00743 .00535 .00306 .00040	CL-C .75574 .75972 .76590 .77912 .79450 .80731 .81992 .00136	CD-C .10636 .10611 .10635 .10702 .10886 .11092 .11340	CSL-C .00206 .00165 .00159 .00100 00015 00027 00036	CLN-C 00136 .00045 .00162 .00473 .00758 .00549 .00318 .00041
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .69629 .69472 .71195 .72492 .76811 .78664 .80276 .00345	02837 02880 03031 03046 03374 03380 03325	CLM-C .19379 .20105 .21691 .23434 .25427 .25737 .25881 .00349	CY-C 02534 02898 03191 03261 02873 02249 01653 00086	CBL-C .00942 .00698 .00478 .00225 00004 00082 00073		CL-C .67915 .68752 .76476 .71756 .75066 .78088 .79470	CD-C .09319 .09422 .09573 .09783 .10210 .10561 .10860 .00034	CSL-C .00821 .00664 .00544 .00357 .00154 .00018 00036	CLN-C 00711 00133 .00238 .00788 .00956 .00796 .00553

**.**\_\_\_\_

ै. **१**,७४४

PAGE S41 DATE 26 NOV 75 TABULATED SOURCE DATA - CARO CARRIER DATA (5GNC61) t 26 NOV 75 1 CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA ALPHAC = ELV-1B = ELEVON = B.000 BETAC XMRP 1339.9000 IN.XC 5500.0000 SQ.FT. = 3.000 .000 ELV-OB = = 327.7800 IN. YMRP .0000 IN.YC MACH .600 = ZMRP = 5.000 BREF = 2348.0400 IN. 190.8000 IN.ZC PHI .000 BETAO = .000 SCALE = .0300 Đ٧ 10.000 DX 10.000 RN/L = 3.28 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000 CD-C C5L-C .00198 CLN-C CBL-C CYN-C CL-C CN-C CA-C CLM-C CY-C DZ .000 .10789 -.00211 .78266 -.03043 - 28405 -.01635 .00241 -.00174 .77441 .77692 .10793 .00187 -.00062 -.00029 3.000 .78514 -.03082 -.28233 -.01661 .00206 .00110 .00163 .78204 .10824 .00151 .00136 7.500 .79023 -.03141 -.28157 -.01677 80100. escoo. scoo.--.03247 -.03325 .10849 .00358 -.01752 .00055 .00370 .78956 15.000 .79768 -.28367 .11014 .00657 .80342 30.000 .81162 -.27860 -.02031 -.00075 .00651 .00476 .00376 .81402 .82865 .00484 45.000 .82256 -.03227 -.26779 -.01518 -.00075 .11301 -.00041 .00390 .83759 -.01071 .11561 -.25233 -.00097 60.000 -.03126 .00005 -.00005 .00042 GRADIENT -.00013 .00032 -.00005 -.00012 .00041 .00103 .00102 GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.26 ALPHAO = 14.000 CSL-C .00563 CN-C .72502 .73018 CD-C CLN-C CL-C CY-C CBL-C CYN-C DZ CA-C CLM-C -.00473 -.0036B .71774 .09735 -.03097 -.10801 -.02143 .00547 .000 .72284 .73256 .00482 -.00029 -.02489 .00054 .09816 3.000 -.03106 -.19557 .00490 .09893 .00406 .00385 7.500 .73989 -.03199 -.21145 -.02814 .00344 .00449 -.03086 -.02833 .00833 .75481 .10104 .00257 .00802 .76217 .77986 15.000 -.03377 -.23190 .00124 .10448 -.24872 -.25056 -.25545 -.00061 .00947 .77217 .00094 .00946 -.03340 30.000 -.02174 .79193 .10784 .00034 .00770 45.000 -.03352 -.00090 .00754 .79990 .00013 .00527

-.01650

-.00088

-.00316

-.00068

-.00040

.00520

.00107

.79985

.00199

.11076

15000.

.00021

.00113

-.03202

-.00014

.80821

.00200

60.000

GRADIENT

TABULATED SOURCE DATA - CA20

CARRIER DATA CA2D 747/1 01 S1

(56N062) ( 26 NOV 75 ) PARAMETRIC DATA

PAGE 942

### REFERENCE DATA

	REFERENCE	DATA								BETAC =	-5.000
LREF =	500.0000 SQ.FT 527.7800 IN. 548.0400 IN. .0300	XMRP YMRP ZMRP	= 1339.900 = .000 = 190.800	0 IN.XC 0 IN.YC 0 IN.ZC				ALPHAC = ELV-1B = ELEVCN = BETAO = DX =	4.000 .000 5.000 .000 .000	ELV-OB = MACH = PHI = DY =	3.000 .600 .000
			RN/L =	3.22	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .32783 .33091 .34550 .36386 .39369 .41275 .43310 .00243	CA-C .01078 .01128 .01191 .01157 .00980 .00813 .00661	CLM-C 12065 12009 14360 16221 18528 19527 20266 00323	CY-C .09062 .08873 .08523 .08527 .07715 .07387 .06651 00073	CBL-C .01469 .01511 .01472 .01476 .01436 .01340 .01178 00000	CYN-C 01510 01770 01754 01758 01506 01147 00030	CL-C .32334 .32636 .34080 .35910 .38894 .40807 .42848 .00240	CD-C .04789 .04871 .05086 .05245 .05380 .05413 .05475	CSL-C .01287 .01302 .01265 .01265 .01239 .01159 .01036	CLN-C 01667 01930 01910 01924 01806 01650 01276 00029
			RN/L =	3.23	GRADIENI INI	EKANE -			00.5	CSL-C	CLN-C
ALFHAO =	14,000 DZ .000 3.000 7.500 15.000 30.000 95.000 60.000 GRADIENT	CN-C .25372 .25695 .27064 .30017 .34805 .37901 .40084 .00232	CA-C .01179 .01122 .01137 .01304 .01226 .01044 .00904	CLM-C 04262 03405 04710 08503 13551 16396 17971 00078	.09008 .08790 .08072 .07477 .07374	CBL-C .01460 .01555 .01564 .01490 .01389 .01379 .01316	CYN-C 01467 01751 01906 01698 01516 01573 00057	CL-C .24954 .25281 .25641 .29560 .34329 .37428 .39614 .00231	CD-C .04115 .04092 .04755 .05765 .05148 .05290 .05379	.01283 .01348 .01341 .01289 .01207 .01196 .01138	01623 01916 02071 01858 01655 01658 01614 00058

TABULATED SOURCE DATA - CARR

.00175

GRADIENT

.00033

-.00412

(SGN063) CARRIER DATA 747/1 01 51 PARAMETRIC DATA

-.00037

.00002

PAGE 943

-. DD001

.00052

.00172

### ( 25 NOV 75 ) CAPD REFERENCE DATA BETAC -5.000 4.000 ALPHAC = 5500,0000 SQ.FT. XMRP \* 1339,9000 IN.XC COFF × ELV-08 = 3.000 .000 ELV-IB = YMRP = .0000 IN.YC IRFF = 327,7800 IN. MACH .600 ELEVON = 5.000 BREF = 2348.0400 IN. 7MRP = 190.8000 IN.ZC .000 PHI .000 BETAO = SCALE = .0300 .000 10.000 DY DX .00/ 12.00 GRADIENT INTERVAL = RN/1 = 3.30 $\Delta 1.9440 = 10.000$ CLN-C CSL-C CD-C CBL-C - CYN-C CL-C CLM-C CY-C CN-C CA-C DΖ -.01614 .01227 .04777 .35382 .08906 .01403 -.01464 -.13373 .35813 .00747 **~.**000 -.01917 .01248 .0'+804 -.01763 .35421 -.12746 .08890 .01456 3.000 .35854 .00770 -.01883 .01237 .36366 .04999 -.01730 .01442 .08493 .36914 .00865 -.146277.500 .01215 -.01960 .05115 .37851 -.01809 .08298 .01428 .38304 .00826 -.16553 15.000 -.01895 .05288 01244 .40193 -.01742 .01450 -.18832 .07870 .40640 .00754 30,000 .05359 01171 -.01695 -.01550 .41836 .01356 .07468 .42292 .00652 -.19795 45.000 -.01614 .43275 .05389 .01101 .07302 .01279 -.01477-.20614 .43727 .00530 60.000 .00001 -.00032 .00137 .00031 .00004 -.00032 -.00058 -.00187 GRADIENT .00140 .00016 .00/ 12.00 3.27 GRADIENT INTERVAL = RN/L = ALPHAO = 14.000CLN-C CSL-C CL-C CD-C CYN-C CY-C CBL-C CLM-C DZ CN-C CA-C -.01771 .03978 .01268 .28949 -.01614 .01480 .29321 .00526 +.00987 .09349 .000 .03987 .01303 -.02051 -.01890 .29270 .01525 -.02033 .09271 .29651 .00600 3.000 .01279 -.02059 .30515 .04260 .01503 -.01911 .09830 .00773 -.03963 .30617 7.500 .01236 -.01787 .32360 .04693 .08003 .01430 -.01635 .32798 .00980 -.07972 15.000 .01208 -.01780 .35106 .05109 .01402 -.01630 -.13380 .07653 .36568 .01002 30.000 01179 -.01697 .05270 .07389 -.01541.38636 -,16107 .00893 45.000 .39101 -.01676 .01144 .40468 .05351 .01327 -.01534 .00786 -.17912 60.000 .40931 -.00037

-.00071

TABULATED SOURCE DATA - CA20

CARRIER DATA CA20 747/1 01 S1

(56N064) ( 26 NOV 75 )

PAGE 944

			CREU	14174	V. 2.				PARAMETRIC	DATA	
IREF * 3	REFERENCE 500.0000 SQ.F1 327.7800 IN. 348.0400 IN. .0300		= 1339.900 = .000 = 190.800	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 .000 5.000 .000 20.000	BETAC = ELV-08 = MACH = PH1 = OY =	-5.000 3.000 .600 .000
			RN/L =	3.30	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .36999 .37420 .38108 .39178 .40947 .42249 .437485 .00148	CA-C .00695 .00712 .00725 .00779 .00758 .00688 .00591	CLM-C 14472 15189 16389 17694 19387 20039 20396 00256	CY-C .08493 .08411 .08290 .08063 .07470 .07364 .07548 00027	CBL+C .01476 .01480 .01477 .01466 .01406 .01353 .01368 +.00000	CYN-C 01590 01560 01771 01753 01543 01500 01589 00024	CL-C .36567 .36584 .37667 .38726 .40487 .41789 .43028 .00147	CD-C .04849 .04910 .04956 .05160 .05324 .05391 .05424	CSL-C .01288 .01282 .01267 .01259 .01273 .01178 00003	CLN-C 01747 01826 01927 01908 01693 01645 01735 00024
ALPHAO =	14.000 2Z .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .31345 .31920 .33021 .34739 .37610 .39542 .41168	RN/L = CA-C .00322 .00330 .00466 .00679 .00766 .00696 .00619 .00020	CLM-C 02466 02933 05426 09143 13068 17903 00407	CY-C .09206 .08889 .08442 .07737 .07234 .07241 .07288 00102	CBL-C .01767 .01691 .01627 .01520 .01428 .01385 .01352	CYN-C 02205 02064 01895 01595 01439 01476 .00042	CL-C .30984 .31554 .32635 .34321 .37168 .39196 .40722 .00222	CD-C .03887 .03955 .04206 .04507 .04983 .05126 .05209	.01175	CLN-C 02390 02341 02057 01757 01592 01606 01621 .00044

TABULATED SOURCE DATA - CA20

GRADIENT

.00006

.00282

-.00277

DATE 26 NOV 75 ( 26 NOV 75 ) (5GN065) CARRIER DATA 747/1 01 51 **CA20** PARAMETRIC DATA REFERENCE DATA -5.000 8.000 BETAC ALPHAC # 3.000 5500.0000 SQ.FT. 327.7800 IN. 1339,9000 IN.XC ELV-OB = XMRP • .000 ELV-1B = .0000 IN.YC .600 **E** MACH YMRP ELEVON = 5.000 LREF .000 190,8000 IN.ZC ZMRP BETAO = .000 = PHI 234B.0400 IN. BREF = .000 DY .0300 .000 SCALE = ĎΧ .00/ 12:00 GRADIENT INTERVAL = 3.22 RN/L = CLN-C CSL-C CL-C .74821 CD-C ALPHAO = 10.000CBL-C CYN-C CY-C .01224 -.01561 CN-C CA-C CLM-C .10608 DZ -.01337 -.27026 -.26851 -.27181 .01474 -.01685 .08802 -.02677 .01247 .75593 .10579 .000 .75009 -.01455 .01519 .08368 -.01692 -.02738 .01255 .75773 .75694 3.000 .10625 -.01460 .015?8 .07945 .01335 -.01792 -.02810 .10720 .76456 7.500 .76697 -.01545 .07632 .01624 -.27240 -.01557 -.02892 .77460 .10923 15.000 -.01311 .78654 .01594 -.26810 -.01660 .01403 -.03032 30.000 .79423 .11043 -.01403 .80146 .07163 .01668 - .26470 -.01735 -.03173 11171 .01433 45.000 .80913 .81691 -.01471 .07275 .01710 -.26502 .00004 -.00016 -.03315 .02456 .00003 60.000 .00119 -.00015 .00007 -.00113 -.00025 -.00018 GRADIENT GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.23 CSL-C .01286 .01285 CLN-C 3-Q2 ALPHAO = 14.000 CL-C CBL-C CYN-C CY-C -.01905 CLM-C CA-C CN-C .66900 .67223 .09156 DZ -.01664 .01595 .09516 .67442 .67877 .69364 .71518 -.02713 -.17795 -.02047 .09263 .000 -.01804 .01619 .09073 -.02681 -.18235 .01268 -.01782 .09535 3.000 .68685 -.01546 .01557 .08192 -.01649 -.02668 -.19825 .01297 7.500 .70818 .09842 -.01410 .07459 .07203 .06940 .01561 -.01696 -.21830 .10240 -.02736 .0133B 15.000 .74348 -.01439 .01609 -.23604 -.01591 30.000 .75063 -.02957 .76815 .78733 .10500 .01334 -.01347 .01588 -.01689 -.24662 .01387 .77538 -.03129 .10721 -.01434 .07139 .01657 .00020 -.25108 .79465 -.03245 - 00002 .00257 .00051 60.000 .00019 -.00178 -.00006

PAGE SHE

			CASO	747/1	01 SI		CARRIER DATA		(5GN06	6) ( 26 N	OV 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	500.0000 SQ.F 327.7800 IN. 348.0400 IN. .0300	T. XMRP YMRP ZMRP	* 1339.900 = .000 = 190.800	0 IN.YC				ALPHAC = ELV-18 = ELEVCN = BETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-08 = MACH = PH1 = DY =	-5.000 3.000 .600 .000
			RN/L =	3.24	GRADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .77694 .77654 .77895 .78801 .80095 .81154 .82017	03048 03087 03129 03144 03210	CLM-C 28158 27738 27910 27904 26995 26530 26763 .00041	CY-C .08526 .08195 .07928 .07774 .07205 .07256 .07292 00078	CBL-C .01604 .01632 .01639 .01718 .01636 .01599 .01559 .00004	CYN-C 01263 01385 01463 01576 01403 01455 01510 00025	CL-C .76949 .76915 .77259 .78059 .79336 .80390 .81236 .00044	CD-C .10637 .10600 .10621 .10720 .10929 .11049 .11221 00002	CSL-C .01364 .01371 .01354 .01422 .01371 .01325 .01277 00000	CLN-C 01511 01636 01711 01839 01654 01699 01746 00026
ALPHAO ≖	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .71077 .71391 .72258 .73853 .76461 .78195 .79707	CA-C 03184 03138 03063 03056 03119 03155	CLM-C 17432 17991 19293 21366 23084 23084 24717 00251	CY-C .09408 .09045 .08336 .07689 .07445 .07159 .07274	CBL-C .01638 .01663 .01599 .01609 .01655 .01552	CYN-C 01710 01819 01649 01515 01418 01418 01490	CL-C .70462 .70763 .71604 .73173 .75753 .77467 .78956	CD-C .09324 .09424 .09648 .09932 .10323 .10589 .1061	CSL-C .01320 .01326 .01325 .01325 .01335 .01287 .01254	CLN-C 01957 02058 01891 01799 01649 01722 .00011

TABULATED SOURCE DATA - CA20

ON 757/1 O1 S1 CARRIER DATA

(5GN067) ( 26 NOV 75 )

			CA20	747/1	01 SI	T.	ANRIER DATA		1 20:100		
									PARAMETRIC	DATA	
	REFERENCE	DATA									
LREF =	500.0000 SQ.F1 327.7800 IN. 348.0400 IN. .0300	YMRP YMRP ZMRP	= 1339.9000 = .0000 = 190.8000	IN.YC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	8.000 .000 5.000 .000 20.000	BETAC = ELV-CB = MACH = PHI = DY =	-5.000 3.000 .600 .000
			RN/L =	3.28	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .76436 .76298 .76474 .77340 .78327 .79276 .79271	03918 03826 03910 03823 03928	CLM-C 29344 28392 27756 27393 26029 25739 26145 .00206	.06920 .06929 .07000 00021	CBL-C .01373 .01422 .01399 .01466 .01376 .01372 .00003	CYN-C 01069 01183 01316 01369 01168 01221 01285 00033	CL-C .75455 .75324 .75492 .76349 .77306 .79259 .78841	CD-C .10306 .10250 .10372 .10440 .10696 .10757 .10884	CSL-C .01118 .01147 .01100 .01158 .01104 .01050 .01080	CLN-C 01322 01443 01569 01463 01466 01635 00033
			RN/L =	3.29	GRADIENT INT	TERVAL =	.00/ 12.00				
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .70878 .71378 .72058 .73059 .75475 .76992 .78173 .00157	CA-C 04039 03953 03958 03805 03817 03839 03855 00024	CLM-C 17211 18129 19003 20147 21467 22367 23682 00235	.07832 .07171 .06816 .06849 .06903	CBL-C .01596 .01517 .01470 .01423 .01408 .01397 .01370	CYN-C 01712 01602 01483 01266 01146 0139 01221	CL-C .70008 .70487 .71139 .72341 .74496 .75995 .77160	CD-C .09190 .09352 .09573 .09839 .10207 .10431 .10638 .00051	CSL-C .01226 .01167 .01142 .01134 .01140 .01150 .01069	CLN-C 01934 01872 01745 01625 01625 01834 01471 .00033

PAGE S48

DATE 26 NOV 75	TABULA	LIED SOURCE (	JATA - CA	KEU						
•		CAZO	747/1	01 51	1	CARRIER DATA		(SGNOS)	B) (28 N	OV 75 )
REFERENC	T DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ. LREF = 327.7800 IN. BREF = 2343.0400 IN. SCALE = .0300	.FT. XMRP	= .00	IN.XC IN.YC IN.ZC				ALPHAC = ELV-1B = ELEVON = EETAO = DX =	4.000 .000 5.000 .000	BETAC = ELV-OB * MACH = PHI = DY =	-5.000 3.000 .600 .000
		RN/L =	3.29	GRADIENT IN	NTERVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .34236 .35011 .36300 .37818 .40230 .41939 .43567 .00276	CA-C .01305 .01312 .01308 .01235 .01043 .00836 .00631	CLM-C 19797 19621 19728 19637 19558 20647 21230	CY-C .07189 .07037 .06694 .06068 .06068 .06545 .07383	CBL-C .02136 .02073 .01926 .01720 .01443 .01389 .01359 00028	CYN-C 01846 01759 01542 01278 01002 01255 01604 .00041	CL-C .33756 .34526 .35808 .37326 .39744 .41465 .43106	CD-C .05167 .05255 .05366 .05472 .05533 .05506 .05472	CSL-C .01915 .01862 .01739 .01561 .01315 .01234 .01169	CLN-C 02070 01978 01746 01463 01163 01405 01749 .09044
		RN/L ⇔	3.22	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .26899 .27742 .29312 .31933 .35940 .38480 .40415	CA-C .01281 .01232 .01252 .01254 .01258 .01076 .00877	CLM-C 12631 12161 12024 14537 16918 17928 19103	.05290 .05483 .04331 .05595	.01370	CYN-C 02095 02077 01746 01178 00245 00743 01262 .00049	CL-C .26461 .27305 .28865 .31466 .35457 .38000 .39946	CD-C .04376 .04415 .04559 .04916 .05279 .05382 .05387	CSL-C .02446 .02341 .02188 .01927 .01391 .01241 .01215	CLN-C 02377 02347 01999 01401 00406 00891 01410

TABULATED SOURCE DATA - CAZO

DATE 25 NOV	v 75	TAHULA	IED SOUNCE F	JATA - CH	EU						
			CA20	747/1	CI SI	(	CARRIER DATA		(56N069	9) ( 26 NO	v 75 1
		DATA							PARAMETRIC	DATA	
LREF = 3	REFERENCE 500.0000 SQ.F 327.7800 IN. 348.0400 IN. .0300		= .000	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-1B = BETAO = DX =	4.000 .000 5.000 .000 10.000	BETAC = ELV-OB = MACH = PHI = CY =	-5.000 3.000 .600 .000
			RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .0 3.0L 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .36190 .36616 .37542 .38764 .40741 .42209 .43523 .00182	CA-C .00927 .00967 .01017 .00974 .00904 .00728 .00553	CLM-C 19148 19856 19458 19305 19982 20664 20835 00048	.06269 .06664 .07322 00065	CBL-C .01951 .01934 .01830 .01659 .01418 .01360 .01344 00017	CYN-C 01872 01841 01624 01364 01104 01269 01564 .00034	CL-C .35738 .36158 .37073 .38293 .40267 .41746 .43070 .00180	CD-C .0+985 .05079 .05286 .05311 .05448 .05426 .05389	CSL-C .01729 .01715 .01834 .01491 .01279 .01204 .01157	CLN-C 02077 02044 01818 01542 01258 01416 01708 .00036
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .3C337 .30656 .31694 .33735 .37060 .39171 .40859	CA-C .00659 .00655 .00930 .00977 .01017 .00904 .00751	3.25 CLM-C 10012 09564 10814 13213 16211 17493 1873C 0012C	.07266 .06679 .05818 .04619 .05871	CBL-C .02393 .02349 .02215 .01912 .01350 .01321 .01332	CYN-C 02090 02122 01761 01235 00342 00866 01287	CL-C .29944 .30264 .31277 .33292 .36594 .38706 .40409	CD-C .84127 .04147 .04429 .04788 .05176 .05264 .05369 .05409	CSL-C .02145 .02099 .02003 .01757 .01301 .01206 .01174	CLN-C 02341 02357 01954 01440 00493 01031 01431 .00049

PAGE S49

-- • ...

TABULATED SOURCE DATA - CARD

CARO 747/1 O1 SI CARRIER DATA

(5GN070) ( 26 NOV 75 )

PAGE 950

			CAEO	, , .				þ	ARAMETRIC	DATA	
IRFF = 3	REFERENCE 500.0000 SQ.F 527.7800 IN. 348.0400 IN. .0300		= 1339.900 = .000 = 190.800	] IN.YC				ALPHAC = ELV-IB = ELEVON = BETAO = DX	0.000 1000 5.000 1000	BETAC = ELV-OB = MACH = PHI = DY =	-5.000 3.000 .600 .000 10.000
			RN/L =	3.26	SRADIENT INTE	RVAL =	.00/ 12.00				
<u>&amp; ОАНЧЈА</u>	10.000 DZ .000 3.000 7.500 15.000 30.700 45.000 60.000 GRADIENT	CN-C .75802 .76193 .76789 .77693 .79453 .80878 .82362 .00132		CLM-C 31214 30713 29937 28565 27359 27099 27003	CY-C .06528 .06372 .06131 .05957 .06063 .06595 .07174	CBL-C .01858 .01851 .01794 .01655 .01540 .01544 .01600	CYN-C 01543 01460 01283 01060 01034 01241 01480 .00035	CL-C .75014 .75414 .76011 .76912 .78674 .80100 .81589 .00133	CD-C .10713 .10700 .10747 .10844 .10925 .11104 .**1208	CSL-C .01566 .01574 .01548 .0148 .01341 .01309 .01323 00003	CLN-C 01831 01748 01564 01322 01274 01479 01724 .00036
	Olympian.		RN/L =	3.21	GRADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAO 3	14.000 DZ .000 3.600 7.500 15.000 50.000 45.000 60.000 GRADIENT	CN-C .67520 .68604 .70170 .72342 .75367 .77706 .79452 .00353	CA-C 02505 02518 02568 02545 02777 02957 03085 00009	CLM-C 23337 23425 24166 24627 24503 25181 25669	.05994	CBL-C .02387 .02377 .02102 .01811 .01461 .01524 .01535	CYN-C 01937 01601 01267 00723 00361 01000 01248 .00076	CL-C .66841 .67911 .69461 .71614 .74636 .76951 .76692 .00349	CD-C .09376 .09551 .09773 .10074 .10473 .10699 .10875	.01958 .01854 .01651 .01380 .01331	CLN-C 02213 01960 01601 01015 00599 01238 01484 .00081

•...

DATE 26 NOV 75	TABULAT	TED SOURCE D	DATA - CA	50					PAG	E 951
		CA20	747/1	01 51	•	CARRIER DATA		(5GND7	1) ( 26 NO	V 75 )
REFERENC	E DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ. LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	FT. XMRP	± .000	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-18 # ELEVON = BETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	-5.000 3.000 .600 .000
		RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00		•		
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .77301 .77509 .77917 .78694 .80000 .81295 .82578	CA-C 02803 02839 02871 02897 02923 03075 03266 00009	CLM-C 31144 30554 29720 28721 27404 27018 26933 .00190	CY-C .06831 .06561 .06414 .06167 .06102 .06557 .06949 00056	CBL-C .01728 .01731 .01694 .01620 .01471 .01481 .01570 00005	CYN-C 01576 01505 01362 01192 01063 01243 01396 .00029	CL-C .76525 .76736 .77143 .77913 .79203 .80506 .81803 .00083	CD-C .10780 .10781 .10820 .10930 .11131 .11206 .11241	CSL-C .01431 .01447 .01436 .01392 .01258 .01246 .01309 .00000	CLN-C 01841 01771 01625 01444 01291 01470 01626 .00029
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .71077 .71687 .72804 .74345 .76529 .78486 .79880 .00232	CA-C 02841 02817 02808 02803 02813 02940 03049 .00004	CLM-C 21735 22030 22882 23630 23703 24554 25251 00156	CY-C .06509 .06301 .05763 .05053 .04986 .06082 .06520	CBL-C .02105 .02045 .01901 .01591 .01425 .01474 .01467	CYN-C 01784 01634 01288 00807 00552 01052 01244 .00067	CL-C .70402 .70999 .72097 .73614 .75766 .77716 .79107	CD-C .09562 .J9791 .09994 .10266 .10636 .10851 .10986	CSL-C .01767 .01734 .01652 .01529 .01312 .01273 .01233	CLN-C 02111 01953 01587 01077 00780 01281 01469 .00071

	CA20 747/1	OI SI CARRIER DATA	(50ND72) ( 26 NOV 75 )
REFERENCE DATA			PARAMETRIC DATA
SREF = 5500.0000 SQ.FT. XMRP LREF = 327.7800 IN. YMRP BREF = 2348.0400 IN. ZMRP SCALE = .0300	= 1339.9000 IN.XC = .0000 IN.YC = 190.8000 IN.ZC		ALPHAC = 4.000 BETAC = 5.000 ELV-IB = .000 ELV-OB = 3.000 ELEVON = 5.000 MACH = .600 BETAO = .000 PH1 = .000 DX = .000 DY = 10.000
	RN/L = 3.28	GRADIENT INTERVAL = .00/ 12.00	
ALPHAO = 10.000  DZ	CA-C	CY-C CBL-C CYN-C0989600450 .009381002500645 .013011056900870 .018271064701045 .021561069901260 .024381024601334 .023370969801388 .021820009200055 .00118  GRADIENT INTERVAL = .00 / 12.00	CL-C CD-C CSL-C CLN-C .34134 .05229
ALPHAO = 14.000 DZ CN-C .000 .25801 3.000 .26604 7.500 .28515 15.000 .31850 30.000 .36324 45.000 .39201 60.000 .41234 GRADIENT .00366	CA-C CLM-C .01058 .02067 .01115 .01017 .0116902311 .0119508493 .0100215119 .0081319230 .0067519951 .0001300599	CY-C CBL-C CYN-C09896 .00125 .002211004900126 .007741065700469 .015941065100806 .020751091901142 .024761059701272 .024931009801315 .023380010400079 .00183	CL-C CD-C CSL-C CLN-C .25394 .04037 .50168 .00223 .26168 .0416800024 .00800 .28077 .0441900279 .01651 .31397 .0479500564 .02165 .35866 .0507100856 .02598 .38747 .0518400984 .02630 .40784 .0525901043 .02479 .00363 .0005100059 .00190

TABULATED SOURCE DATA - CA20

DATE 26 NOV	<i>t</i> 75	IABULA	FD Sonuce :	JAIA - CH	-0						
			CA20	747/1	01 51	C	ARRIER DATA		(5GN07)	( SE NO/	/ 75 )
			<b>U</b>						PARAMETRIC	DATA	
	REFERENCE	DATA								BETAC =	5.000
SREF - 59	500.0000 SQ.F	T. XMRP		00 IN.XC				ALPHAC = ELV-18 =	4.000 .000	ELV-OB *	3.000
LREF = 3	327.7800 IN.	YMRP		00 IN.YC				ELEVON =	5.000	MACH =	.600 .000
	340.0400 IN. .0300	ZMRP	= 190.80	00 IN.ZC				BETAO =	.000 10.000	PH! =	10.030
SCALE =	.0300							DX =	10.000	J.	•=
		RUN NO.	0/ 0	RN/L =	3.24 GR/	DIENT INTER	VAL = .0	0/ 12.00			
		OV 0	CA-C	CLM-C	CY-C	CBL-C	CYN-C	CL-C	CD-C	CSL-C 00444	CLN-C .00836
ALPHAO 10.000	DZ .000	CN-C .35838	.01036	09858	09230	00548	.00766 .01155	.35379 .35812	.05054 .05081	00570	.01241
10.000	3.000	.36271	.0101B	10584	09493 10063	00715 00911	.01686	.36914	.05129	00710	.01789
10.000	7.500	.37372 .38856	.00950 .00810	13033 16240	10344	01076	.02072	. 38404	.05:45 .05:82	00833 01021	.02190 .02520
10.000 10.000	15.000 30.000	.41121	.00609	19715	10516	01298	.02381 .02340	.40678 .42233	.05233	01092	.02486
10.000	45.000	.42673	.0049B	20732	10224 09962	01364 01422	.02272	.43725	. 05274	01157	.02425 .00127
10.000	60.000 GRADIENT	.44161 .00208	S1000	20911 00438	00112	00048	.00122	.00208	.0001 <b>0</b>	-,00035	.00167
	GRADIEN	,00200	.00014								
	CA20 747/1 01 S1 CARRIER DATA				4	15GN07	74) (26 NC	)V 75 )			
			• • • • • • • • • • • • • • • • • • • •						PARAMETRIC	DATA	
	REFERENCE	DATA							в.000	BETAC =	5.000
SREF = 5	5500.0030 SQ.F	T. XMRP	= 1339.90	000 IN.XC				ALPHAC = ELV-IB =	.000	ELV-OB *	3.000
IRFF =	327.7800 IN.	YMRP		000 IN.YC				ELEVON =	5.000	MACH =	.600 .000
BREF = 8	.0300 IN.	ZMRP	= 190.60	)00 1N.2C				BETAO ≖ DX ≖	.000 000.	PH1 =	10.000
SCALE -	.0500							DA -	.000		
			RN/L =	3.27	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	10.000				ov 0	CBL-C	CYN-C	CL-C	CD-C	CSL-C	CLN-C
	OZ	CN-C	CA-C 02730	26500	CY-C 10403	00633	.01199	.75829	.10760	00409 00453	.01300 .01695
	.000 000.E	.76524 .76793	02833	26651	10502	00745	.01581	.76013 .76295	.10698 .10663	00485	.01984
					10495	00827	.01850			· · ·	
	7.500	,77067	02907	27011				.77157	. 10755		.02346
	7.500 15.000	.77067 .77931	02907 02956	27453	10645	00957 01084	.02205	.78806	.10998	00675	.02390
	7.500 15.000 30.000	.77067 .77931 .79597	02907	27453 27802 27659	10645 10173 09869	00957 01084 01114	.02205 .02227 .02164	.78806 .80041	.10998 .11226	00675 00715	.02390 22333 22530
	7.500 15.000	.77067 .77931	02907 02956 03013	27453 27802	10645 10173 09869 09538	00957 01084	.02205	.78806	.10998	00675 00715 00738	.02390 22333

			CA20	747/1	01 SI		CARRIER DATA		(56N07	(4) (26 N	OV 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	500.0000 SQ.F1 327.7800 IN. 348.0400 IN. .0300	T. XMRP YMRP ZMRP	≖ .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	0.000 .000 5.000 .000	SETAC = ELV-08 = MACH = PHI = DY =	5.000 3.000 .600 .000
			RN/L =	3.22	GRADIENT INT	ERVAL =	.00/ 12.00				
	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .69430 .69341 .70922 .72794 .75602 .77897 .79522 .00334	CA-C 02657 02739 02863 03014 03087 03101 03154 00027	CLM-C 16630 17665 20509 23136 25174 26357 00526	CY-C 10531 10795 11082 11021 10717 10137 09759 00073	CBL-C 00206 00478 00707 00909 01112 01197 01263 00065	CYN-C .00750 .01345 .01883 .02234 .02432 .02468 .02137 .00149	CL-C .67746 .68659 .70236 .72106 .74885 .77147 .78756	CD-C .09409 .09487 .09639 .09816 .10231 .10616 .10846	CSL-C 00067 00231 00363 00501 00657 00779 00857 00039	CLN-C .00703 .01416 .01985 .02367 .02597 .02450 .02333 .00158
			CARD	747/1	01 51		CARRIER DATA	,	(5GN07	5) ( 26 NO	OV 75 )
	REFERENCE	DATA	CARO	747/1	01 51		CARRIER DATA	•	(5GN07		OV 75 )
LREF = 3	REFERENCE 500.0000 SQ.F1 327.7800 IN. 348.0400 IN. .0300		= 1339.90 = .00	747/1 00 IN.XC 00 IN.YC 00 IN.ZC	OI SI		CARRIER DATA	ALPHAC = ELV-1B = ELEVON = BETAO = DX =			5.600 3.000 .600 .000
LREF = 3	500.0000 SQ.F1 327.7800 IN. 348.0400 IN.	I. XMRP YMRP	= 1339.90 = .00	00 IN.XC 00 IN.YC 00 IN.ZC	OI SI  GRADIENT INT		CARRIER DATA	ALPHAC = ELV-IB = ELEVON = BETAO =	PARAMETRIC 8.000 .000 5.000	BETAC = ELV-OB = MACH = PH1 =	5.690 3.900 .600

DATE 26 NOV 75 TABULATED SOURCE DATA - CA20

60.000

GRADIENT

.43554

.00209

.00590

-.00006

-.2060B

-.00215

PAGE 955 (50ND75) ( 26 NOV 75 ) CARRIER DATA 747/1 01 SI CA20 PARAMETRIC DATA REFERENCE DATA 8.000 BETAC \* 5.000 ALPHAC = SREF = 5500,0000 SQ.FT. XMRP = 1339,9000 IN.XC ELV-OB = ELV-IB = .000 3.000 327.7800 IN. YMRP = .0000 IN.YC LREF = .600 ELEVON = 5.000 MACH = ZMRP = 190,8000 IN.ZC BREF = 2348.0400 IN. .000 BETAO = .000 PHI SCALE = . 0300 10.000 10.000 DY RN/L = 3.23 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14,000 CLN-C · CSL-C CD-C CBL-C CYN-C CL-C DZ .000 CN-C CA-C CLM-C CY-C -.00129 .00975 -.09983 .00929 .67727 .09475 -.00301 .68422 -.02589 -.14615 -.02637 -.026730 -.02672 -.03068 .01458 .01391 .68223 .09514 -.00201 .68918 .70165 -.00456 3.000 -.16166 .01935 .09639 -.00331 -.10613 .01838 .69468 7.500 -.18743 -.00667 .02322 .09747 -.00465 -.20908 -.10737 -.00865 .02196 .70899 15.000 .71593 -.00759 .02584 .74336 .76574 .78134 -.01200 .02403 .73634 .10030 -.10669 30.000 -.24104 -.03123 .10365 -.00337 .02436 -.25132 -.01350 02227 .75848 -.10133 45.000 .77399 .10550 -.01022 .02753 .02130 -.25876 -.09798 -.01420 60.000 -.00027 .00126 -.00083 .00022 -.00552 -.00049 .00120 .00236 GRADIENT .00236 -.00019 CARRIER DATA (5GN076) ( 26 NOV 75 ) CA20 747/1 01 SI PARAMETRIC DATA REFERENCE DATA XMRP = 1339.9000 IN.XC YMRP = .0000 IN.YC ALPHAC = 4.000 BETAC = SREF 5500.0000 SQ.FT. .000 5.000 ELV-OB = ELV-IB = 3.000 LREF 327.7800 IN. .600 ELEVON \* MACH = ZMRP = 190.8000 IN.ZC BREF = 2348.0400 IN. BETAO = 7,500 .000 PHI SCALE = .0300 .000 DY DX .008 GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.22ALPHAO = 10.000CSL-C CLN-C CD-C CLM-C CY-C CBL-C CYN-C DZ CN-C CA-C .01019 -.01691 -.00965 .33357 .04994 .000 .33821 .01175 -.11727 .07651 .01142 .01030 -.01442 .05018 .01190 -.01313 .33822 3.000 .34287 .01150 -.11815 .07794 -.01818 .34900 .05111 7.500 15.000 .35369 .37444 .01130 -.13276 .08107 .01279 -.01681 .0109B -.01824 .01058 -.16140 .07925 .01297 -.01686 .36972 .05257 .39646 .05379 .011: 3 -.01887 .00900 -.18442 .07878 .01352 -.0:744 30.000 .40116 -.01739 .41403 .05414 .01:52 45.000 .00752 -.19633 .07599 .01292 -.01601 .41667 .43097 .05430 .01047 -.01472 -.01341

.07110

.00060

.012:0

.00018

-.08094

.00008

.00208

.00016

-.00095

TABULATED SOURCE DATA - CA20

(56N076) ( 26 NOV 75 ) CARRIER DATA CA20 747/1 01 51 PARAMETRIC DATA

PARAMETRIC DATA

PAGE 956

-5.000

## REFERENCE DATA

SREF = LREF = BREF =	5500.0000	IN.	XMRP YMRP	=======================================	1339.9000 .0000 190.8000	IN.YC	ALPHAC ELV-1B ELEVON BETAO		4.000 .000 5.000 .000	BETAC ELV-OB MACH PHI	<b>*</b>	-5.000 3.000 .600 7.500
SCALE =		EIV.	Z1 411		.55.55	•	DX	=	.000	DY	*	.000

### .00/ 12.00 RN/L = 3.24 GRADIENT INTERVAL =

ALFHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .25777 .26776 .28202 .31016 .35648 .38520 .40525 .00323	CA-C .00926 .01073 .01169 .01226 .01096 .00936 .00774 .00032	CLM-C 02212 02582 04447 08401 13820 16580 18258 00300	CY-C .07401 .07762 .08050 .07646 .07885 .07721 .07625 .00085	CBL-C .01047 .01126 .01195 .01188 .01306 .01305 .01287	CYN-C 00818 01210 01551 01442 01692 01658 01677 00097	CL-C .25383 .25361 .27769 .30562 .35182 .38055 .40066 .00318	CD-C .03905 .04156 .04401 .04752 .05107 .05296 .05296	.00540 .00540 .00977 .01009 .01015 .01106 .01109 .01095 .00009	00935 01333 01689 01570 01831 01797 01754 00099
----------	--------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	-------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	-------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------------------------	----------------------------------------------------------------------

			CARRIER DATA	(5GN077)	( SO MOA 12 1
ስለ ጋብ	747/1	01 51	CARRETE DATE		

## REFERENCE DATA

REF	ERENCE DATA			AL DUAC	= 4.000	BETAC =	-5.000
SREF = 5500.001 LREF = 327.781 BREF = 2348.041 SCALF = .03	O IN. ZMRP	= 1339.9000 0000. = 190.9000	IN.YC	ALPHAC ELV-IB ELEVON BETAO OX	.000	ELV-OB = MACH = PHI = DY =	3.000 .600 7.500 .000

# RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00

ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 68.000 GRADIENT	CN-C .35917 .35924 .36529 .38147 .40444 .42132 .43528 .60088	CA-C .00851 .00867 .00905 .00911 .00784 .00685 .00600	CLM-C 12865 12008 13080 15826 17952 19477 21090 00043	CY-C .07984 .08208 .08591 .09480 .09242 .07817 .07493 .00081	CBL-C .01112 .01214 .01289 .01339 .01397 .01303 .01312	CYN-C 00918 01361 01732 01828 01859 01638 01509 00107	CL-C .35474 .35381 .35078 .37685 .39884 .41673 .43071 .00087	CD-C .04901 .04897 .05009 .05184 .05298 .05376 .05437 .00015	C5L-C .00994 .01049 .01085 .01125 .01179 .01109 .01131	01041 01492 01859 01970 02006 01777 01650 00108
----------	--------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	----------------------------------------------------------------------------	-------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	-------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	----------------------------------------------------------------------

TABULATED SOURCE DATA - CA20

-.03157

-.00018

.01617

.80124

60.000

GRADIENT

-.26352

-.00031

.07534

.00005

.01550

.00014

-.00063

(5GN077) ( 25 NDV 75 ) CARRIER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA -5.000 ALPHAC = 4.000 BETAC XMRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. ELV-08 -3.000 YMRP = .0000 IN.YC ZMRP = 190.8000 IN.ZC ELV-IB = .000 LREF = 327.7800 IN. .600 5.000 MACH = ELEVON = BREF = 2348.0400 IN. PHI 7.500 .000 BETAO = SCALE = .0300 DY .000 10.000 DX = RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000 CLN-C CD-C CYN-C CL-C CLM-C CY-C CBL-C DZ CN-C CA-C .00935 -.00655 .01013 -.00540 .29100 .03818 .29465 .00450 -.00335 .07577 -.01198 .00985 -.01075 .29307 .03952 .01119 .07985 3.000 .29685 .00562 -.01085 -.01695 .04184 .01008 -.01568 .29991 .08364 .01195 .00721 7.500 .30369 -.02112 .01023 -.01700 .32239 .04609 -.01571 .08084 .01210 15.000 .32669 .00909 -.06952 .01147 -.01975.04957 .35914 -.01831 .00870 -.12656 .08260 .01362 30.000 .36361 -.01835 .38440 .05180 .01133 -.01693 -.15897 ,07927 .01333 .00828 45.000 .38895 .40334 -.01805 .05218 .01131 -,17743 .07852 -.01663 .01328 .00668 ,40784 60.000 -.00137.00049 .00009 .00103 .00024 -.00135 .00036 -.00236 GRADIENT .00126 (5GND78) ( 26 NDV 75 ) 747/1 OI SI CARRIER DATA CA20 PARAMETRIC DATA REFERENCE DATA 8.000 ALPHAC = BETAC = XMRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. ELV-0B = 3.000 ELV-IB = .000 YMRP # .0000 IN.YC LREF 327.7800 IN. .600 MACH = ELEVON = 5.000 ZMRP = BREF \* 2348.0400 IN. 190.8000 IN.ZC PHI = 7,500 .000 BETAO = SCALE = .0300 DY .080 .008 DX = 3.21 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAO = 10.000 CD-C CSL+C CLN-C CBL-C CYN-C CL-C CN-C .76031 CY-C DZ CA-C CLM-C -.01279 .01050 .10552 -.01089 .75258 -.02709 -.26598 .07958 .01254 .000 -.01639 .01064 -.01441 .75465 .10606 .01330 .76228 -.02791 -.26283 .08052 3.000 .01075 -.01784 -.01592 .76175 .10672 .01367 7.500 .76937 -.02849 -.26777 .08010 -.01909 .0113B .10764 -.01694 .77048 .07887 .01451 15.000 .77813 -.02910 -.26943 .109:3 .01155 -.01652 .78659 .01423 -.01438 .79431 .80590 -.26402 .07268 30.000 -.03013 -.01744 .01206 -.01520 -.01561 .79910 .11095 .07414 .01468 -.03081 -.26228 45.000 -.01795 .11181

.00837

.00125

.00004

PAGE S57

-.00065

.00003

TABULATED SOURCE DATA - CAZO

DATE 26 NOV 75	TABULA	IED ZONKCE DI	AIA - CA	.=0						
		CA20	747/1	01 S1		CARRIER DATA		(5GN07	B) (26 NO	v 75 1
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F' LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0360		= 1339.900 = .000 = 190.800	O IN.YC		·		ALPHAC = ELV-IB = ELEVON = BETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	+5.000 3.000 .600 7.500 .000
		RN/L =	3.30	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAC - 14.008  DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .68424 .68795 .70060 .72174 .75409 .77603 .79191 .00223	02795 02808 02861 03022 03072 03154	CLM-C 17657 17671 19209 21478 23473 24921 00217	CY-C .08083 .08242 .08118 .07516 .07974 .07546 .00066	.01340 .01364 .01341 .01518 .01466	CYN-C 01024 01394 01564 01397 0192 01528 01575 00069	CL-C .67780 .58147 .69395 .71465 .74700 .76869 .78447	CD-C .09257 .09311 .09518 .09832 .10236 .10567 .10762	CSL-C .01103 .01081 .01075 .01083 .01188 .01182 .01206 00004	CLN-C 01223 01594 01765 01587 02017 01748 01800 00070
		CAZO	747/1	(4 51		CARRIER DATA		LEGNOT	9) (26 N	OV 75 1
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300			O IN.XC O IN.YC O IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	8.000 .000 5.000 .000 10.000	BETAC = F'_V-08 = MACH = PHI = DY =	-5.000 3.000 .600 7.500
		RN/L =	3.28	GRADIENT	INTERVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000	CN-C .76985 .76824 .77156 .78042 .79321	CA-C 02647 02877 02914 02932 03008	CLM-C 27442 26599 26694 27269	.0839. 6890. 8890.	+ .01361 2 .01436 5 .01483	01482 01825 01745 01562	CL-C .76221 .76068 .76401 .77276 .78549 .79764 .80463	CD-C .10692 .10625 .10545 .107929	CSL-C .01069 .01087 .01103 .01104 .01204	CLN-C 01233 01684 02035 01985 01787 01784

\_\_\_\_\_

TABULATED SOURCE DATA - CA20

.00219

GRADIENT

-.00011

747/1 01 SI

PAGE S59

### (56N079) ( 26 NOV 75 ) CARRIER DATA CASO PARAMETRIC DATA REFERENCE DATA -5.0008.000 BETAC = ALPHAC = XMRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. ELV-09 = 3.000 .000 ELV-IB = YMRP = .0000 IN.YC ZMRP = 190.8000 IN.ZC LREF = 327.7800 IN. .600 MACH = 5.000 ELEVON = BREF = 2348.0400 IN. 7.500 PHI = .000 BETAO = SCALE = .0300 .000 10.000 DY OF POOR QUALLTY OF POOR QUALLTY .00/ 12.00 RN/L = 3.27 GRADIENT INTERVAL = CLN-C CSL-C CD-C CYN-C CY-C CBL-C CN-C CA-C CLM-C DZ .000 -.01117 .00907 .70364 .09569 -.00955 .01086 .71023 .70707 .71364 -.16859 .06400 -.02926 .00220 -.01631 .70051 .09524 -.01458 .08604 .01187 -.02916 -.15627 3.000 -.02221 -.02036 .00941 .70696 .03646 09074 .01310 7.500 -.02908 -.16754 .00978 -.01848 .72292 .09842 .01283 .08095 .72986 -.02894 -.19465 15.000 -.02112 .10327 .01054 .74807 .01403 -.01909 .08189 -.21752 30.000 .75531 -.02951 -.01753 .10593 .01101 .07555 -.01546 .76575 45.000 .77318 -.02996 -.22962 -.01853.01166 .10733 -.01634 77991 60.000 .01468 -.23841 .78736 -.03104 .00004 -.00146 .00052 .00012 .00030 -.00143 -.00006 .00002 .00091 .00053 GRADIENT ( 26 NOV 75 ) (5GN080) CARRIER DATA CA28 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA BETAC 4.000 ALPHAC = XMRP = 1339.9000 IN.XC ELV-OB = 3.000 5500.0000 SQ.FT. .000 ELV-IB = .0000 IN.YC 327.7800 IN. YMRP = MACH = .600 ELEVON = 5.000 ZMRP = 190.8000 IN.ZC BREF = 2348.0400 IN. 7.500 3 PHI BETAO = .000 .0300 10.000 SCALE = DY .000 אמ RN/L = 3.33 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000 CSL-C CLN-C CD-C CYN-C CL-C CBL-C CY-C CLM-C CN-C CA-C .01584 -.01631 DZ .05300 -.01443 .33994 .01761 .06407 -.20066 .000 .34487 .01412 -.01605 .01588 .05310 -.01417 .34530 .01762 .01366 .01330 .01238 .06348 -.18955 .35021 .01524 3.000 -.01500 .05388 01687 -.01319 . 35624 -.18811 .06247 7.500 .36117 -.01298 .37152 .05457 -.01132 .01534 - 18924 - 19397 .06096 15.000 .37644 -.01265 .01221 .05495 .39695 .01362 -.01118 .05348 .40177 .01010 30.000 .41311 .42545 .00219 .01179 -.01508 .05484 -.01364 -.20368 .05998 .01344 45.000 .41783 .00830 -.01934 .05513 .01193 -.01785 .01403 .00730 -.21941 .07735 60.000 .43013 .00018 -.00009 .00012 -.00010 .00017 -.00021 .00157

DATE CO NUY 15	INDULA	TED SOURCE DATA - C	NEU					
		CA20 747/1	01 S1	CARRIER DATA	ı	(5GN080	n (26 NO	v 75 l
REFERENCE	DATA					PARAMETRIC	DATA	
SREF = 5500.0000 SQ.FT LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	YMRP	= 1339.9000 IN.XC = .0000 IN.YC = 190.8000 IN.ZC	;		ALPHAC = ELV-IB = ELEYON = BETAO = DX =	.000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	-5.000 3.000 .600 7.500 10.000
		RN/L = 3.32	GRADIENT IN	TERVAL = .00/ 12.00				
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .26554 .27280 .28826 .31374 .35513 .39331 .40309 .00294	CA-C CLM-C .013250909: .013150999: .0131710215 .013481187: .012451532: .010461731* .008631897:000010016	04948 05037 04858 04811 06289 007082	CBL-C CYN-C .0201701168 .0202601145 .0196001063 .0171700776 .0129900421 .0132801069 .013590143300008 .00014	CL-C .26213 .26837 .28374 .30905 .35032 .37856 .79842 .00292	CD-C .04394 .04450 .04613 .04910 .05240 .05337 .05362 .00030	CSL-C .01858 .01879 .01823 .01611 .01232 .01193 .01186 -,00007	CLN-C 01384 01363 01274 00963 00566 01214 01579 .00015
		CA20 747/1	01 51	CARRIER DATA	4	(5GN38)	1) (26 1%	)V 75 )
REFERENCE	DATA					PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP	= 1339.9000 IN.X = .0000 IN.Y = 190.8000 IN.Z	3		ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.000 .000 5.000 .000 10.000	BETAC = ELV-OB = MACH = PHI = DY =	-5.000 3.000 .600 7.500 10.000
		RN/L = 3.26	GRADIENT IN	TERVAL = .00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .36470 .36724 .37437 .38551 .40613 .42143 .43754 .00131	CA-C .009901893 .009931897 .010271893 .008671994 .007092050 .005122180	4 .06773 8 .06760 5 .06714 3 .06539 3 .06565 6 .07645 0 .07725	CPL-C CYN-C .0165601459 .0168801476 .0151701291 .0136601216 .0134701412 .013750172400006 .00006	CL-C .36011 .36263 .36968 .39178 .40143 .41692 .43305	CD-C .85077 .05117 .05225 .05330 .05398 .05401 .05374	CSL-C .01509 .01508 .01459 .01357 .01216 .01176	CLN-C 01639 01656 01590 01454 1364 01557 01870

TABULATED SOURCE DATA - CA20

DATE 26 NOV 75	1ABQLA:	CA20 74	7/1 0	1 S1	(	CARRIER DATA		(5GNC81	1 ( 28 40/	75 )
		CHEC !!						PARAMETRIC	DATA	
REFERENCE  SREF = 5500.0000 SQ.I  LREF = 327.7800 IN.  BREF = 2348.0400 IN.  SCALE = .0300	FI. XIPP YMRP	= 1339.9000 I = .0000 I = 190.8000 I	N.YC				ALPHAC = ELV-IB = ELEVON = BETAO = OX =	4.000 .000 5.000 .000 10.000	BETAC = ELV-OB = MACH = PHI = OY =	-5.000 3.000 .600 7.500 10.000
		RN/L = 3.	25 GF	RADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .30£75 .30876 .31635 .33389 .36739 .39071 .46922 .00131	.006730 .007660 .008500 .00985009870085300702	.M-C 18752 18506 19365 11079 15200 17035 16979 100090	CY-C .06071 .05945 .05793 .05355 .05068 .06525 .07152 03037	CBL-C .01877 .01915 .01855 .01695 .01271 .01326 .01341 00002	CYN-C 01396 01357 01233 00889 00194 01145 .00022	CL-C .30280 .30471 .31216 .32947 .36278 .36612 .40468 .00128	CD-C .04167 .04279 .04443 .04761 .05112 .05222 .05286 .00037	CSL-C .01705 .01746 .01710 .01537 .01195 .01183 .01167	CLN-C 01595 01562 01433 01068 06636 01292 01589 .00022
		CA20 7	4 <b>7</b> /1 1	O1 S1		CARRIER DATA		(56N08	5) (56 K	ov 75 )
								PARAMETRIC	DATA	
SREF = 5500.0000 SO LREF = 327.7800 IN BREF = 2348.0400 IN SCALE = .0500	FT. XPEP YNEP	= 1339.9000 = .0000 = 190.9000	IN.YC				ALPHAC = ELV-IB = ELEVON = EETAO = DX =	8.000 020 5.000 200 000	PHI =	-5.000 3.000 .600 7.500 10.000
		RN/L = 3	8.28 G	RADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 10.000										CLN-C

DATE 25 NOV 75 TABULATED SOURCE DATA - CA20

CARRIER DATA (56N082) ( 28 NOV 75 ) CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA -5,000 BETAC = 8.000 ALPHAC = SREF = 5500.0000 SQ.FT. XMRP = 1339,9000 IN.XC 3.000 ELV-08 = .000 FLV-iB = YMRP = .0000 IN.YC LREF # 327.7800 IN. .600 5.000 MACH = ELEVON = BREF = 2348.0400 IN. ZMRP = 190.8000 IN.ZC 7.500 BETAO = .000 PHI = SCALE = .0300 10.000 .000 DY .00/ 12.00 RAVL = 3.28 GRADIENT INTERVAL = ALPHAD # 14.000 CLN-C CST-C CD-C CYN-C CL-C CBL-C CLM-C CY-C DZ CN-C CA-C -.01538 .01788 .09405 -.01216 .65669 .02026 .67355 .68156 .04984 .000 -.02445 -.22252 -.01465 .01734 .67465 .09497 -.01154 .01950 .05046 -.02494 -.21915 3.000 -.01236 .01641 .68751 .09676 -.00944 .01829 .04939 .69454 -.02540 -.22106 7.500 -.00900 .01470 -.00643 .70854 .09948 .01602 .04755 15.000 .71582 -.02639 -.23063 -.00824 .01289 .10324 -.00599 .74141 .01411 .74874 -.02838 -.24037 .05268 30.000 .01287 -.01451 .76523 .10564 -.01217 .05577 .01517 -.03015 -.24848 .77261 45.000 .01246 -.01623 .78377 .10785 .01507 -.01394-.25602 .07026 .79126 -.03120 80.000 .08841 .00036 -.00020 .00278 .00037 -.00007 -.00027 .00015 -.00013 GRADIENT .00281 (50N083) ( 26 NOV 75 ) CARRIER DATA CA20 747/1 01 SI PARAMETRIC DATA REFERENCE DATA 8.000 BETAC = ALPHAC = SREF - 5500.0000 SQ.FT. XMRP - 1339.9000 IN.XC 3.000 ELV-08 \* .000 ELV-IB = .0000 IN.YC LREF \* 327.7800 IN. ALSS = HACH = .600 ELEVON \* 5.000 190.8000 IN.ZC ZMSP = BREF = 2348.0400 IN. PHI = 7.500 .000 \* OAT39 SCALE = .0300 10.000 10.000 DY RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10,000 CLN-C CSL-C CL-C CD-C CYN-C CEL-C CLM-C CY-C CA-C .01293 -.01639 CN-C DZ .76409 .10760 .01547 -.01403 -.30695 .05547 .089 -.02903 .77182 -.01577 .76599 . 10755 .01563 -.01439 .06514 -.025-0 -.30165 3.000 .77359 -.01637 .10793 .01279 .76994 .06608 .01542 -.01402 -.02652 -.29319 .77557 7.500 .77357 .78900 .10879 .L.235 -.01483 -.01257 -158051 .01473 -.02851 -.02937 .06454 15.000 .78147 .11045 .01205 -.01483 .01445 -.01269 .06530 -.27421 30.000 .79588 -.01623 .79953 .11163 .01170 .01432 -.01407

.07033

.07449

.00007

.01313

-.00001

-.01497

.00001

-.27052

-.26116

.00183

-.03021

-.03133

-.00005

.80744

.81467

.00063

45.000

60.000

GRADIENT

PAGE 952

-.01691

.00001

.01037

-.00001

.1117B

.00805

.80685

.00063

DATE 26 NOV 75

(50NDB3) ( 26 NOV 75 ) CARRIER DATA CA2D 747/1 01 SI PARAMETRIC DATA REFERENCE DATA BETAC -5.000 8.000 . ALPHAC = 1339.9000 IN.XC XMRP = 5500.0000 SQ.FT. ELV-OB = 3.000 .000 ELV-1B = YMRP = .0000 IN.YC 327.7800 IN. .600 5.000 MACH ELEVON = ZMRP = 190.8000 IN.ZC BREF = 2348.0400 IN. 7.500 .000 PHI \* BETAO = .0300 SCALE = = 10.000 DY 10.000 ORIGINAL PAGE IS .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.24 ALPHAO = 14.000 CSL-C CLN-C CD-C CYN-C CL-C CY-C CBL-C CLM-C CN-C CA-C ĐZ .70388 .70626 .01524 -.01547 .09669 .01767 -.01270 .000 .05693 -.02912 -.21205 .71067 -.01477 .09758 .01483 .01716 -.01209 .71314 -.02785 -.20768 .05519 3.000 -.01289 .01430 .71568 .09904 .01630 -.01033 -.02805 -.02768 .05471 -.21218 7.500 .72267 -.00847 .01280 .10170 -.00623 .72975 .04918 .73699 -.21953 15.000 -.00859 .75306 .77195 .01161 .10515 .05399 .06630 .01291 -.00556 -.02852 -.23246 30.000 .76055 -.01485 .01187 .10723 -.01269 .01425 45.000 60.000 .77951 -.02976 -.24363 -.01594 .01118 .10891 .78721 .07008 .01376 -.01388 .79+83 -.03075 -.25142 .00035 -.00012 .00161 .00029 -.00018 .00032 -.00030 GRADIENT .00164 .00000 -.00009 (5GNGB4) ( 26 NOV 75 ) CARRIER DATA CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA BETAC 4.0G0 ALPHAC = XMRP 1339.9000 IN.XC SREF 5500.0000 SQ.FT. -3.000 ELV-03 = .000 ELV-IB = YMRP \* .0000 IN.YC LREF 327.7600 IN. MACH = .600 5.000 ELEVON = 190.8000 IN.ZC ZMRP BREF = 2348.0400 IN. .000 PHI = 7.500 EETAO = SCALE = .0300 .000 DY .000 ŭΧ .00/ 12.00 RN/L = 3.19 GRADIENT INTERVAL = ALPHAO = 10.000 CI\_N-C CSL-C CD-C CYN-C CL-C CBL-C CY-C CLM-C DZ CN-C CA-C .00797 -.00251 .05427 .00769 .31579 -.01979 -.00328 .32092 -.10975 .000 .01761 .00570 .05516 -.00223 -.00276 .00545 .32522 -.01518 -.11563 3.000 7.500 .01751 .00422 .33756 .05597 -.00174 .00403 -.01223 -.00212 34275 .01703 -.13519 -.15881 .00348 -.00169 .36060 .05736 .00330 .01601 .01398 .01235 -.01042 -.00199 15.000 .36591 -.00150 .00353 .05822 .00336 .30912 .39327 .41233 -.18733 -.00923 -.00181 30.000 .00229 .40725 .42640 .00269 .05859 -.00094 .00219 45.000 60.000 -.19937 -.00711 -.00112

-.00459

.00098

-.00028

.00015

TABULATED SOURCE DATA - CA20

.01079

-.0000B

.43142

.00290

GRADIENT

-.20919

-.00347

PAGE 963

.05903

.00022

.00064

-.00047

-.00027 .00010

.00066

-.00049

			CA20	747/1	01 51	1	CARRIER DATA		(SGN0B	0% 6S ) (#	v 75 )
	REFERENCE	E DATA							PARAMETRIC	DATA	
SREF = LREF = BREF = SCALE =	5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300	YMRP YMRP ZMRP	<b>.</b> 00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-1B = ELEVON = UETAO = DX =	4.000 .000 5.000 .000	BETAC = ELV-03 = MACH = FHI = DY =	.000 3.000 .600 7.500 .000
			RN/L =	3.19	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHA0	- 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .22507 .23851 .25876 .29296 .34518 .37691 .39275 .00449	CA-C .01366 .01401 .01574 .01730 .01659 .01161 .01291	CLM-C .03162 .01789 01463 06402 13534 16420 18490 00625	CY-C 03223 02658 02009 01191 00953 00682 00616	CBL-C 00516 00414 00371 00278 00217 00144 00105	CYN-C .01454 .01152 .00807 .00387 .00360 .00230 .00173 00086	CL-C .22088 .23430 .25416 .27801 .34002 .37176 .39368	CD-C .04032 .04208 .04591 .05164 .05573 .05773 .05773	CSL-C 00367 00296 00290 00241 00183 00184 00092 .00016	CLN-C .01499 .01199 .00840 .00841 .00380 .00243 .00192 00097
			CA20	747/1	01 51		CARRIER DATA	<b>.</b>	t5GN08	15) ( 26 NO	IV 75 1
	REFERENC	E DATA	CA20	747/1	01 S1		CARRIER DATA	•	15GN06		V 75 )
SREF = BREF = SCALE =	REFERENCE 5500.0000 SQ. 327.7800 IN. 2348.0400 IN. .0300		= 1339.90 = .00	747/1 00 IN.XC 00 IN.YC 00 IN.ZC	01 51		CARRIER DATA	ALPHAC = ELV-18 = ELEVON = SETAO = DX			.000 3.000 .600 7.500
LREF =	5500.0000 SQ.8 327.7800 IN. 2348.0400 IN.	FT. XMRP	= 1339.90 = .00	0X.NI 00	OI SI  GRADIENT INT		CARRIER DATA	ALPHAC = ELV-18 = ELEVON = SETAO =	PARAMETRIC 4.000 .000 5.000	BETAC = ELV-0B = MACH = PH1 =	.000 3.000 .600 7.500

PAGE 985 DATE PRINOV 75 TABULATED SCURCE DATA - CARD (5GND85) ( 26 NOV 75 ) CARRIER DATA CARD 7-//1 01 SI PARAMETRIC DATA REFERENCE DATA BETAC -4.000 ALPHAC = STOR - SEGO.CBBO SG.FT. LREF = SE7.7600 ID. BREF = 25:0.9400 ID. SCALE = .0200 MMAP - 1339.9000 IN.MC 3.000 ELV-08 = .000 ELV-IB = YMMP = .0000 IN.YC .600 5.000 MACH = ELEVON \* ZMRP = 190.0000 IN.ZC 7.500 .000 PHI BETAO = 000 10.000 DY RN/L = 3.26 GRADIENT INTERVAL = .00/ 12.00 ALTICO - 19.000 CSL-C CLN-C CD-C CYN-C CL-C CN-C .0008**5** .87889 CLM-C CY-C CBL-C CA-C -.00308 .01146 .03979 .26435 .01108 .00859 .03924 -.02400 -.00420 ۵۵0. -.00325 .01064 .2690B .04299 .01025 .02506 -.02288 -.00429 .01128 3.000 .00571 -.00266 .28204 .04634 -.00329 .00541 -.01582 -.00433 .01385 7.500 .25659 .00378 -.00211 .05102 -.00244 .00355 .31149 .31630 .35620 .38348 -.0i033 -.06617 15.000 .01483 .00293 -.00157 .00276 .35120 .05482 -.00182 -.00754 -.12823 .01446 30.000 .00245 .05649 -.00123 .00232 .37846 -.00142 -.00575 000.000 000.00 TMDICLID .01327 -.16172 .00204 .39443 .05770 -.00095 - .00637 .00195 -.00110 -.17796 35949 18510. -.00085 .00095 .00005 .00240 .00013 -.00064 00249 -.00997 .00113 .00069 (56N086) ( 26 NOV 75 ) CARRIER DATA 747/1 01 51 0540 PARAMETRIC DATA REFERENCE DATA BETAC = ALPHAC = 8.000 9827 a 5500.0000 SQ.FT. LREF a 527.7800 IN. BREF a 2348.0400 IN. MMRP = 1339.9000 IN.XC ELV-OB = 3.000 ELV-IB = .000 YMAP = .0000 IN.YC .600 MACH = 5.000 ELEVON \* ZMRP = 190.8000 IN.ZC 7.500 .000 PHI BETAO = SCALE = .0300 .000 DY .000 DX RN/L = 3.22 GRADIENT INTERVAL = .00/ 12.00 ALFHA0 = 10.000 CLN-C CD-C CL-C CYN-C CY-C CBL-C CN-C CA-C CLM-C DΖ .00384 .10672 -.00086 -.00141 .75673 .00362 .000 .76505 -.02951 -.28455 -.01436 -.00079 .00403 75963 .10670 .00393 -.00138 -.27734 -.01366 .76790 -.02903 3.000 -.00076 .00395 .10597 .00375 .76649 ~.27387 -.01247 -.00133 .77469 -.02996 7.500 .00387 -.00069 .77489 .10720 ~.27096 -.01165 -.00125 .00368 .78301 -.03119 15.000 -.00043 .00311 .10873 .00298 .78853 -.00926 -.00085 -.26420 -.03207 30.000 .79681 .00037 .00263 .11090 .79937 .00002 .00265 .807-7 -.25792 -.00836 -.03180 45.000 .00250 .00:76 .80937 .11299 -,00914 .00140 .00276 .**81** 

.00001

.00025

.00001

.00001

.00001

.00004

.00132

-.03148

-.00019

.00.25

60.000

GRADIENT

-.25644

.00137

5.1.2 25 1107 75	INDUL	ייבט שטטונב ט	AIM - G	460					FAC	E 300
		CAS0	747/1	01 S1		CARRIER DATA	<b>.</b>	(SGNBE	16) ( 26 NO	IV 75 )
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP	= 1339.900 = .000 = 190.800	O IN.YC				ALPHAC = ELV-18 = ELEVCN = BETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 7.500 .000
		RN/L =	3.21	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO = 14.000 DZ .000 3.000 7.560 15.000 30.300 45.300 60.000 GRADIENT	CN-C .67924 .68929 .70542 .72648 .75696 .77582 .79051 .00350	02869 02946 03091 03236 03268 03267	CLM-C 16928 17954 20057 22094 23662 24074 24162 00421	CY-C 02168 01846 01456 01175 00969 007795 .00094	CBL-C 00350 00235 00236 00208 00183 00113 00076	CYN-C .00760 .00542 .90476 .00387 .00328 .00231 .00288	CL-C .67224 .68216 .69817 .71917 .74944 .76807 .78254 .00347	CD-C .09178 .05339 .09543 .09767 .10153 .10449 .10704	CSL-C 00223 00191 00156 00148 00134 00081 00047	CLN-C .00812 .00565 .00511 .00419 .00357 .00250 .00241
		CAZO	747/1	01 SI		CARRIER DATA	1	(56NDS	7) ( 26 NO	V 75 )
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP		IN.YC				ALPHAC = ELV-18 = ELEVON = ETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 7.500
		RN/L =	3.28	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000	CN-C .77014	CA-C 02944	CLM-C 28124	CY-C 01312	CBL-C 00038	CYN-C .00364	CL-C .76191	CD-C . 10669	CSL-C .00016	CLN-C .00368

.00255

GRADIENT

-.00015

DATE 25 NOV 75 TABULATED SOURCE DATA - CA20 (5GN087) ( 26 NOV 75 ) CARRIER DATA 747/1 LIST CAZO PARAMETRIC PATA REFERENCE DATA 8.000 BETAC = ALPHAC = XMRP # 1339.9000 IN.XC 3.000 SREF = 5500.0000 SQ.FT. ELV-08 = ELV-18 = .000 YMRP = .0000 IN.YC 327.7800 IN. .600 MACH = 5.000 ELEVON = ZMRP 190.8000 IN.ZC 7.500 EREF = 2348.0400 IN. .000 PHI BETAO # .0300 .000 10.000 DY DX RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000CLN-C CSL-C CD-C CL-C CYN-C CBL-C CY-C CLM-C CN-C CA-C .00702 DZ -.00114 .09459 .00670 .69917 -.00223 -.01875 -. 15950 .000 .70625 -.03046 .00546 -.00141 .09525 .00511 .70092 -.00241 -.15700 -,01698 .70809 -.03012 3.000 .00525 -.00107 .71229 .09628 -.00186 .00497 -.01426 -.03108 -.17541 7.500 .71947 .00437 -.00135 .72635 .09815 -.00198 .00406 -.03166 -.19592 -.01180 15.000 .73364 .00344 -.00137 .74905 .10113 .03314 -.00910 -.00184 .75651 -.03268 -.21696 30.000 -.00069 .00212 .10351 .76266 .00196 -.00651 -.00094 -.22333 .77033 -.03270 .00243 45.000 -.00036 .10594 .77591 .00233 -.22825 -.00770 -.00067 .78369 -.03259 60.000 .00023 .00001 -.00024 .00181 -.00023 .00060 .00006 -.00228 .00182 -.00009 **GRADIENT** (5GN088) ( 26 NOV 75 ) CARRIER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA BETAC = 4.000 ALPHAC = XMRP = 1339.9000 IN.XC 3.000 SREF = 5500.0000 SQ.FT. ELV-CB = .000 ELV-IB = YMRP = .0000 IN.YC 327.7800 IN. .600 LREF 5.000 MACH ₽ ELEVON = ZMRP = 190.8000 IN.ZC BREF # 2348.0400 IN. 7.500 .000 PHI BETAC = SCALE = .0300 10.000 .000 DY RN/L = 3.34 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000 CLN-C CD-C CL-C CYN-C CBL-C CLM-C CY-C CA-C DZ CN-C .00491 .00146 .05663 .32229 .00479 .00198 -.02430 -.13047 .32763 .01928 .000 .05673 .00427 .00065 .32857 .00111 -.01968 .00423 -.12964 .33389 .01972 3.000 .00349 .00068 .05751 .34122 .00345 .00106 -.01612 -.14024 7.500 .34656 .01818 .00304 .00206 .05850 .00325 .36097 -.01668 .00178 -.16353 15.000 .36630 .01710 .00500 .00081 .38932 .05925 .00508 -.18962 -.01582 .00034 .39457 .01498 30.000 .00457 -.00003 40754 .05933 .00456 -.00045 -.01277 .01305 -.20171 .41270 45.000 .00356 -.00121 .42453 .05937 -.00152 .00342 .01131 -.20621 -.00795 60.G00 .42980 -.00010

.00107

-.00139

-.00018

-.00011

.00255

.00012

-.00019

PAGE SE7

.01101

-.00006

.43622

.00194

### DATE 26 NOV 75 TABULATED SOURCE DATA - CA20 (56N08B) ( 26 NOV 75 ) CARRIER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA .000 BETAC = 4.000 ALPHAC = MACH = PHI = DY 3.000 XMRP = 1339.9000 IN.XC .000 SREF = 5500.0000 SQ.FT. ELV-IB = .600 YMRP = .0000 IN.YC 5.000 LREF = 327.7800 IN. ELEVON = 7.500 ZMRP = 190.8000 IN.ZC .000 BREF # 2348.0400 IN. BETAO = 10.000 .000 DX \* .0300 SCALE = RN/L = 3.32 GRADIENT INTERVAL = .00/ :2.00 CLN-C CD-C ALPHAO = 14.000 CL-C CYN-C .00167 CY-C CBL-C .00896 CLM-C .04615 CA-C CN-C .23063 DZ 18500. .00879 -.84017 .09761 .00179 .01267 .04664 .000 .23538 .01844 .24377 .00259 .00743 .00287 -.03437 .00584 -.00833 .01755 .24850 .26242 .04784 .00348 3.000 .00556 -.02946 .00734 .00332 -.03523 .05172 .01679 .26717 .00766 .29470 7.500 00259 -.03007 .00848 -.08125 .00088 .01728 .05572 .29969 .34301 15.000 .00853 .00004 -.02480 .00646 .00019 .01620 -. 14315 .05740 .34814 .37206 30,000 .00646 -.00043 -,01802 .00459 -.17033 -.00019 .C1484 .05811 .37722 .39326 45.000 -.00062 .00456 -.01276 .00017 -.18752-.00041 .01334 .00023 .39837 .00423 60.000 .00012 -.00043 .00140 -.00635 -.00022 .00423 GRADIENT (5GN089) ( 26 MOV 75 ) CA20 747/1 O1 S1 CARRIER DATA PARAMETRIC DATA REFERENCE DATA SETAC = 4.000 ALPHAC = 3.000 SREF = 5580.0000 SQ.FT. XMRP = 1339.9000 IN.XC ELV-0B = .000 ELV-IB -.600 LREF = 327.7800 IN. 7457 = .0000 IN.YC MACH = 5.000 ELEVON = .000 PHI = 7.500 Zig. = 190.8000 IN.ZC BREF = 2348.0400 IN. EETAO = 10.000 .0300 SCALE = RN/L = 3.32 GRADIENT INTERVAL = .00/ 12.00 CLN-C CSL-C CD-C CL-C ALPHA0 - 18.800 CYN-C CBL-C .00097 CY-C CLM-C .00371 CA-C .34366 .05566 CN-C DZ .00137 .00364 -.01920 .00058 -.13767 .00312 .05619 .34879 .01608 .000 .00092 .34780 .00310 .00050 -.01625 .00250 -.13780 .01618 .05673 .35296 .00077 .35797 3.000 .00249 -.14811 -.0140B .00271 .00148 .05785 .01565 .36313 .37298 7.500 .00287 .00124 .00511 -.01496 .00021 -.17182 .05836 .01520 15.000 .37817 .00512 .39589 +.00027 .00492 -.01601 -.19339 -.00043 .01331 .05979 .40102 .41292 30.000 .00486 -.0136B -.00089 -.00082 .00508 -.20948 .41800 .01195 .05976 .43114 45.000 .00498 -.00129 -.23299 -.01251 -.00006 -,00016

PAGE 959

.00014

.00193

-.00008

-.00015

.00057

-.00146

60.000

GRADIENT

. ---

PAGE SES TABULATED SOURCE DATA - CA20 DATE 26 NOV 75 CARRIER DATA ( 28 NOV 75 ) (50N089) CASO 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC C\$ 5500.0000 SQ.FT. XMRP = 1339,9000 IN.XC SRFF = ELV-08 = 3.000 .000 ELV-18 = YMRP = .0000 IN.YC LREE 327.7800 IN. . .600 5.000 MACH 190.8000 IN.ZC ELEVON \* ZMRP = 2348.0400 IN. BREF . 7.500 BETAO = .000 PHI SCALE . .0300 10.000 DY = 10.000 .00/ 12.00 RN/L = 3.26 GRADIENT INTERVAL = ALPHAO = 14.000 CLN-C CL-C CD-C CLM-C CY-C CBL-C CYN-C ÐΖ CN-C CA-C -.00009 . 04498 .00723 .00068 .27947 .000 .01216 -.00790 -.02788 .00725 .28383 .00010 .28485 .00617 .04611 -.01928 -.02397 .00617 .00076 .28931 3.000 .04808 .00479 .03246 .01351 .00456 .00295 .29519 -.03951 -.02423 7.500 .30079 .00819 .00842 .32195 .05135 .00246 -.08701 -.02901 .00165 15.000 .32675 .01406 .00747 .00005 .00752 .35875 . 05464 .00078 .01349 -.14693 -.02198 30.000 .36369 .00681 05618 -.00019 -.00085 .00677 .38363 -.01823 45.000 .38859 .01242 -.17452 .40247 -.00043 .00498 .05715 .40743 -.19362 -.01354 -.00090 .00492 60.000 .01142 -.00032 .00035 .00042 -.00036 .00032 -.00424 .00044 GRADIENT .00018 (5GNB90) ( 26 NOV 75 ) CARRIER DATA CA20 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 8.000 BETAC = .000 ALPHAC = XMRP = 1339.9000 IN.XC 5500.0000 SQ.FT. ELV-18 = .000 ELV-OB = 3.000 YMRP = LREF 327.7800 IN. .0000 IN.YC MACH = .600 ELEVON = 5.000 '30.8000 IN.ZC BREF = 234B.0400 IN. PHI = 7.500 .000 BETAO = SCALE = .0300 10.000 DX = .000 DY .00/ 12.00 RN/L = 3.27 GRADIENT INTERVAL = ALPHAO = 10.000CD-C CSL-C CLN-C CL-C CYN-C CY-C CBL-C DZ CN-C CA-C CLM-C .75784 .17638 .00121 -.00197 - 27014 -.01920 .00164 -.00174 .76608 -.02904 -.00101 -.00083 .76160 .10601 .00100 .00127 3.000 .76972 -.03006 -.27200 -.01742 .00158 .10582 .00057 .00039 .00165 .76760 7.500 .77559 -.03128 -.27267 -.27606 -.01823 .00288 .10650 .00007 15.000 30.000 45.000 60.000 .77753 -.03234 -.03380 -.01635 -.00029 .00262 ,78548

-.01775

-.01369

-.00945

.00010

-.27185

- .26699

-.26428

-.00032

.80134

.81264

.82384

.00127

GRADIENT

-.03357

-.03255

-.00030

-.00210

-.00238

-.00254

-.00017

.10782

11001

.11295

~.00007

.79339

.80448

.81534

.00130

.00553

.00412

.00239

.00046

-.00121

-.00174 -.00219 -.00009

.00584

.00449

.00282

.00048

		CA20	747/1	01 51		CARRIER DATA		(5GN09)	0) (26 NC	IV 75 )
REFERENCE I	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.FT LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	YMRP YMTT ZMRP		10 IN.XC 10 IN.YC 10 IN.ZC	•			ALPHAC = ELV-1B = ELEVON = BETAO = DX =	8,000 ,000 5,000 ,000 ,000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 7.500 10.000
		RN/L =	3.28	GRADIENT INTE	RVAL =	.00/ 12.00				
.000 3.000 7.500 15.000 30.900 45.000 60.000	CN-C .67984 .68728 .70267 .72584 .75922 .78470 .79701	CA-C 02970 03009 03089 03230 03357 03370 03342 00016	CLM-C 16339 17443 19789 22504 25621 25431 00465	CY-C 03270 03165 03325 03286 02222 01695 01287 00010	CBL-C .00553 .00418 .00211 00021 00143 00251 00241	CYN-C 00073 .00152 .00599 .00938 .00711 .00562 .00392	CL-C .67303 .68043 .69572 .71878 .75187 .77699 .78905 .00306	CD-C .09076 .09166 .09354 .09618 .10073 .10502 .10744 .90038	CSL-C .00522 .00426 .00302 .00132 00027 00160 00180 00029	CLN-C 00165 .00080 .00556 .00930 .00727 .00600 .00431
		CA20	747/1	01 51		CARRIER DATA		(5GN09	1) ( 26 NO	OV 75 )
REFERENCE	DATA	CA20	747/1	01 SI		CARRIER DATA		(5GN09	•	OV 75 )
REFERENCE SREF = 5500.0000 SQ.FT LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300		= 1339.900 = .000	747/1 00 IN.XC 00 IN.YC 00 IN.ZC	01 51		CARRIER DATA	ALPHAC = ELV-1B = ELEVON = BETAO = OX		•	.000 3.000 .600 7.500 10.000
SREF = 5500.0000 SQ.FT LREF = 327.7800 IN. BREF = 2348.0400 IN.	. XMRP YMRP	= 1339.900 = .000	00 IN.XC	O1 S1		CARRIER DATA	ALPHAC = ELV-1B = ELEVON = BETAO =	PARAMETRIC 8.000 .000 5.000	DATA  BETAC = ELV-0B = MACH = PHI =	.000 3.000 .600 7.500

DATE ES HOT 75	INDUSK	TED DOGNOE DANS	• • • • • • • • • • • • • • • • • • • •							
		CA20 74	71	01 S1	(	CARRIER DATA		(5GN09	1) 1 SE NO	v 75 )
REFERENCE	DATA			•				PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. EREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP	= 1339.9000 H = .0000 H = 190.8000 H	I.YC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	8.000 .000 5.000 .000 10.000	BETAC = ELV-OB = MACH = PH1 = OY =	.000 3.000 .600 7.500 10.000
		RN/L = 3.8	86 (	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .71663 .72026 .73199 .74718 .76991 .79561 .79981 .00209	031781 032001 032021 033922 034212 033132 032682	1-C 5715 5260 3470 9932 3702 4222 4740	CY-C 03039 02809 03118 03148 02339 01855 01531 00015	CBL-C .00194 .00106 00095 00274 00575 00580 00380	CYN-C .00159 .00232 .00668 .00913 .00743 .00629 .00462	CL-C .70962 .71323 .72493 .74007 .76251 .78763 .79170 .00209	CD-C .09510 .09551 .09574 .09829 .10195 .10748 .10866 .00022	CSL-C .00209 .00134 .00012 00122 00402 00305 0026	CLN-C .00126 .00212 .00578 .00950 .00800 .00711 .00524 .00076
		CA20 74	7/1	01 S1		CARRIER DATA	•	(5GN09	125 I 26 NC	)V 75 J
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP	= 1339.9000 I = .0000 I = 190.8000 I	V.YC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.000 .000 5.000 .000 .000	BETAC = ELV-OB = MACH = PHI = DY =	5.000 3.000 .600 7.500 10.000
		RN/L = 3.	38	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAC = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .34392 .35179 .36657 .39459 .40917 .42597 .44330	.012141 .012201 .011811 .010351 .007756 .006696	M-C 0676 1603 4242 7128 0037 0769 0924 0484	CY-C 11072 10847 10480 10470 10453 09819 08870 .00079	CBL-C 00835 00947 01031 01170 01353 01359 01333 00026	CYN-C .01674 .01818 .01871 .02122 .02415 .02168 .01771	CL-C .33913 .34705 .36179 .37985 .40457 .42130 .43866 .00304	CD-C .05079 .0516B .05284 .05325 .05325 .05394 .05552	CSL-C 00635 00732 00809 00921 01073 01103 01121 00023	CLN-C .01769 .01924 .01935 .02250 .02561 .02335 .01918

			CA2D	747/1	01 51	1	CARRIER DATA		15GN09	23 ( 26 NO	v 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = LREF = EREF = SCALE =	5500.000f SQ.FT 327.7800 IN. 2348.0400 IN. .0300	PMAP	= 1339.900 = .000 = 190.800	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4 000 .000 5.000 .000	BETAC = ELV-OB = MACH = FHI = DY =	5.000 3.000 .600 7.500 10.000
			RN/L =	3.31	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO :		CN-C .25980 .27033 .28752 .31911 .36423 .39195 .41148 .00373	CA-C .00984 .00918 .00984 .01096 .00978 .00844 .00736 .00001	CLM-C .02550 00078 03392 06555 15053 17892 19360 00788	CY-C 11916 11841 11499 11216 10633 10194 09689 .00057	CBL-C 00502 00502 00902 01132 01293 01359 01354 00053	CYN-C .01547 .01854 .02077 .02318 .02416 .02354 .02155 .00069	CL-C .25560 .26535 .28338 .31467 .35967 .36738 .40592	CD-C .03970 .04016 .04261 .04703 .05057 .05214 .05311 .00040	CSL-C 00317 00468 00660 00863 01013 01085 01101	CLN-C .01608 .01943 .02177 .02441 .02555 .02500 .02302 .00.174
			CA28	747/1	01 SI		CARRIER DATA		(5GN09	3) ( 26 NO	IV 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
SREF = LREF = EREF = SCALE =	5500.0000 SQ.F1 327.7800 IN. 2348.0400 IN. .0300	YMRP	001	OO IN.XC OO IN.YC OO IN.ZC				ALFHAC = ELV-IB = ELEVON = EETAO = DX =	4.000 .000 5.000 .000 10.000	EETAC = ELV-03 = MACH = PHI = DY =	5.000 3.000 .600 7.500 10.000
LREF =	327.7800 IN. 2348.0400 IN.	YMRP	001	OO IN.YC	GRADIENT INTE	RVAL =	.00/ 12.00	ELV-IB = ELEVON = EETAO =	.000 5.000 .000	ELV-03 = MACH = PHI =	3.000 .600 7.500

í----

DATE CO NOV 75	IABULA	HED SOURCE	DATA - CA	icu					1.714	C 5.5
		CA20	747/1	01 51		CARRIER DATA		(5GN09	3) ( 25 NO	V 75 1
REFEREN	CE DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ LREF = 327.7800 IN EREF = 2348.0400 IN SCALE = .0300	YMRP	= .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 .000 5.000 .000 10.000	BETAC = ELV-OB = MACH = PHI = DY =	5.000 3.000 .600 7.500 10.000
		RN/L =	3.25	GRADIENT INT	ERVAL =	.00/ 12.00				
ALFHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .29703 .30208 .31614 .34113 .37614 .40070 .41482 .00259	CA-C .00463 .00539 .00754 .00789 .00749 .00655 .006777	CLM-C .01997 .00308 02951 08790 15023 18106 19566 00665	CY-C 10898 11034 10777 10885 10515 10322 09788 .00019	CBL-C 00694 01693 01198 01341 01407 01404	CYN-C .01481 .01828 .01908 .02448 .02419 .02397 .02186 .00054	CL-C .29338 .39832 .31208 .33689 .37175 .39528 .41041	CD-C .03842 .03972 .04332 .04627 .04654 .05118 .05168	CSL-C 00515 00578 00777 00936 01168 01147 00034	CLN-C .01552 .01928 .02019 .02378 .02563 .02548 .02338 .00058
		05A3	747/1	01 S1		CARRIER DATA		(56N09	(4) ( 26 N	ov 75 )
REFEREN	CE DATA							PARAMETRIC	DATA	
SREF * 5500.0000 SQ LREF * 327.7800 IN EREF * 2348.0400 IN SCALE * .0300	. YMRP	00	00 IN.XC 00 IN.YC 00 IN.ZC		•		ALPHAC = ELV-IB = ELEVON = BETAO = DX =	8,000 ,000 5,000 ,000 ,000	BETAC # ELV-08 # MACH = PHI # DY =	5.000 3.000 .600 7 500 10.000
		RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				

\_

	CA20 747/1 OI	OI SI CARRIER DATA	(5GN094) ( 26 NOV 75 )
REFERENCE DATA			PARAMETRIC DATA
SREF = 5500.0000 SQ.FT. XMRP LREF = 327.7900 IN. YMRP BREF = 2348.0400 IN. ZMRP SCALE = .0300	= 1339.9000 IN.XC = .0000 IN.YC = 190.8000 IN.ZC		ALPHAC = 8.080 BETAC = 5.080 ELV-IB = .080 ELV-CB = 3.080 ELEVON = 5.080 MACH = .680 BETAO = .080 PHI = 7.590 DX = .000 DY = 10.000
	RN/L = 3.28 GRA	RADIENT INTERVAL = .00/ 12.00	
ALFHAO = 14.000  DZ	CA-C CLM-C02959152090295417067029752005503087226130304124939029422559102976260720000200648	CY-C CBL-C CYN-C1224000821 .017741205600979 .020311171801113 .022541107001250 .023031029201242 .022590975501175 .021270946701092 .02048 .0007000038 .00063	CL-C         CD-C         CSL-C         CLN-C           .67762         .09105        00495         .01693           .68589         .09264        00605         .02178           .70066         .09495        00699         .02421           .71992         .09721        00825         .02493           .74673         .10241        00824         .02498           .76559         .19674        00714         .02307           .77955         .10987        00714         .02215           .00307         .00052        00027         .00069
	CA20 747/1 0	OI SI CARRIER DATA	(56N095) ( 26 NOV 75 )
REFERENCE DATA	CA20 747/1 0	01 S1 CARRIER DATA	(SGN095) ( 26 NOV 75 ) PARAMETRIC DATA
REFERENCE DATA  SREF = 5500.0000 SQ.FT. XMRP LREF = 327.7800 IN. YMRP EREF = 2348.0400 IN. ZMRP SCALE = .0300	CAZO 747/1 0: = 1339.9000 IN.XC	01 SI CARRIER DATA	
SREF = 5500.0000 SQ.FT. XMRP LGEF = 327.7800 IN. YMRP EREF = 2348.0400 IN. ZMRP	= 1339.9000 IN.XC = .0000 IN.YC = 190.8000 IN.ZC	CARRIER DATA  CARRIER DATA  RADIENT INTERVAL = .00/ 12.00	PARAMETRIC DATA  ALPHAC = 8.000 BETAC = 5.000 ELV-IB = .000 ELV-OB = 3.000 ELEVON = 5.000 MACH = .600 BETAO = .000 PHI = 7.500

----

TABULATED SOURCE DATA - CARD

					CA20	747/1	01 SI	f	CARRIER DATA	i	156N89	51 ( 26 N	OV 75 )
			REFERENCE	DATA							PARAMETRIC	DATA	
İ	SREF LREF BREF SCALE	= *	5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300	T. XMRP YMRP ZMRP	= .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	8.000 .000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	5.000 3.000 .600 7.500 10.000
					RN/L =	זי: 3	GRADIENT INT	ERVAL =	.00/ 12.00				
OF POOR QUALITY	TNAT	IAO =	= 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .71547 .71803 .72824 .73912 .75515 .76787 .77963 .00175	CA-C 02934 02957 03011 02947 02651 02448 02347 00010	CLM-C 15326 15849 16950 20258 22997 23846 24760 00459	CY-C 11437 11586 11429 11077 10532 10108 09829 .00004	CBL-C 00884 00990 01104 01100 00669 00773 00657 00029	CYN-C .01823 .02145 .02309 .02434 .02425 .02329 .02264 .00063	CL-C .70864 .71120 .72135 .73195 .74723 .75939 .77086 .00174	CD-C .09677 .09700 .09924 .10075 .10646 .11074 .11370	CSL-C 00548 00595 00691 00655 00451 00248 00018	CLN-C .01957 .02293 .02474 .02597 .02547 .02352 .00067
<b></b>	44												
13					CA20	747/1	01 SI		CARRIER DATA	<b>.</b>	(5GN09	18) (26 N	OV 75 )
MIN			REFERENCE	DATA	CAZO	747/1	01 SI		CARRIER DATA	1	(5GN09	-	OV 75 )
	SREF LREF BREF SCALE	# # # # # # # # # # # # # # # # # # #	REFERENCE 5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300		= 1339.90 = .00	747/1 00 IN.XC 00 IN.YC 00 IN.ZC	01 SI		CARRIER DATA	ALPHAC = ELV-IB = ELEVON = BETAO = DX =		-	-5.000 3.000 .600 7.500 10.000
	SREF LREF BREF	=	5500.0000 SQ.F 327.7800 IN. 2348.0400 IN.	T. XMRP	= 1339.90 = .00	00 IN.XC	OI SI GRADIENT INT		.00/ 12.00	ALPHAC = ELV-IB = ELEVON = BETAO =	PARAMETRIC 4.000 .000 5.000 -5.000	BETAC = ELV-OB = MACH = PHI =	-5.000 3.000 .600 7.500

TABULATED SOURCE DATA - CA20

		CA20	747/1	01 51	c	CARRIER DATA		(5GN09)	5) ( 26 NO	IV 75 1
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP	= 1339.900 = .000 = 190.800	B IN.YC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 .000 5.000 -5.000	BETAC = ELV-OB = MACH = PHI = DY =	-5.000 3.000 .600 7.500 10.000
		RN/L =	3.28	GRADIENT INTE	RVAL =	.00/ 12.00				
ALCHAO = 14.000 02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .24885 .25232 .25483 .25435 .34203 .37418 .39709 .00218	.01423 .01437 .01430 .01280 .01100	CLM-C 06236 04651 04810 08017 13297 16309 180.3	CY-C .039+4 .04108 .04566 .05065 .05699 .06944 .07340	CBL-C .01675 .01712 .01709 .01565 .01325 .01385 .01374	CYN-C 00704 00642 00714 00788 00757 01310 01490 00003	CL-C .24452 .24789 .26031 .28968 .33725 .36941 .39241	CD-C .04235 .04343 .04487 .04790 .05139 .05285 .05334	CSL-C .01576 .01620 .01609 .01458 .01223 .01225 .01195 .00004	CLN-C 00887 00829 00901 00959 00903 01459 01637 00003
		05AD	747/1	01 S1	(	CARRIER DATA		(5GN09)	7) ( 26 N	DV 75 1
REFERENCE	E DATA	CAZO	<b>7</b> 47/1	01 51	(	CARRIER DATA		(56N09		OV 75 1
REFERENCE SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	TT. XMRP YMRP	= 1339.900	O IN.XC	01 \$1		CARRIER DATA	ALFHAC = ELV-1B = ELEVGN = BETAO = DX =			-5.000 3.000 3.600 7.500 10.000
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN.	TT. XMRP YMRP	= 1339.900 = .000	O IN.XC	O1 S1		CARRIER DATA	ALFHAC = ELV-1B = ELEVGN = BETAO =	PARAMETRIC 8.000 .000 5.000 -5.000	DATA  BETAC = ELV-0B = MACH = PHI =	-5.000 3.000 .600 7.500

S 4 4

....

DATE 26 NOV 75	TABULA	ATED SOURCE DATA - "	<b>≙ె</b> 9			PAGE 977
		CA20 747/1	01 SI	CARRIER DATA	(5GN097) ( 2	6 NOV 75 1
REFERENCE	DATA				PARAMETRIC DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP	= 1339.9000 IN.XC = .0000 IN.YC = 190.8000 IN.ZC		ALPHAC ELV-18 ELEVCN BETAO DX	= .000 ELV-09 = 5.000 MACH = -5.000 PHI	
		RN/L = 3.26	GRADIENT INTERVAL	.00/ 12.00		
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .64288 .65372 .66904 .69410 .73336 .76086 .76764 .00348	CA-C CLM-C 0230615325 0230817517 0237818645 0251520795 0277723504 0299524790 0318025981 0001000305	.04520 .016 .84924 .016 .05258 .019 .05372 .019 .06950 .019	.90	09010 .015 91 .09198 .015 12 .09394 .014 04 .09594 .013 16 .10118 .013 62 .10360 .013 32 .10663 .013	0801193 0901229 5101223 4301115 1001343 0101588 2001710
		CA20 747/1	01 51	CARRIER DATA	(50N098) ( 2	6 NOV 75 )
REFERENCE	DATA				PARAMETRIC DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP			DX	000 ELV-08 = 5.000 MACH	= .000 = 3.000 = .600 = 7.500 = 10.000
		RN/L = 3.29	GRADIENT INTERVAL	.00/ 12.00		
ALPHAO = 10.000 OZ .000 3.000 7.500 15.000 30.000 45.000	CN-C .30198 .31176 .33022 .35382 .38490	CA-C CLM-C .0176905545 .0175306685 .0176010145 .0169513647 .0154718926	01977 .00 01742 .00 0189700 0115900	215 .00385 .298 209 .00135 .308 114 .00247 .325 059 .00580 .348	594 .05237 .002 568 .05323 .002 504 .05523 .001 557 .05705000	99 .00359 217 .00112 34 .00232 103 .00582 39 .00423

SCALE =

SREF =

LREF -

SCALE =

TABULATED SOURCE DATA - CA20

(56N09B) ( 26 NOV 75 ) CARRIER DATA 747/1 01 ST CA20 PARAMETRIC DATA REFERENCE DATA 4.000 BETAC ALPHAC = XMRP = 1339.9000 IN.XC ELV-08 = 3.000 SREF = 5500.0000 SQ.FT. .000 LLV-19 = YMRP = .0000 IN.YC .600 LREF = 327.7800 IN. BREF = 2348.0400 IN. MACH = 5.000 ELEVON = 190.8000 IN.ZC 7.500 PHI -5.000 BETAO = 10.000 .0300 DY .000 DX RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00 CLN-C ALPHAO = 14.000 CSL-C CD-C CL-C CYN-C CEL-C CLM-C CY-C .00791 CN-C CA-C .08360 DZ .04158 .21062 .00281 .00826 -.04889 .05555 .21500 .01599 .00640 .000 .00379 .22002 04261 .00677 .00315 .04365 -.04131 .01603 .00575 3.000 .22446 .00339 .23793 .04425 .00608 .01578 .00282 .24244 .01578 -.03361 .00765 7.500 .00179 .04697 .27493 .007B1 -.03002 .00104 -.04824 .27973 .01661 .01132 -.00073 15.000 .03484 .32972 .01119 -.00186 -.12912 -.02793 30.000 .33484 .01672 .00550 -.00034 .0574B .00545 .36126 -.01426 -.00085 -.15992 .01605 45.000 .36648 -.00003 .00240 .38351 .05853 -.00023 .00239 -.00746 -.17954 .01487 -.00028 60.000 .38973 -.00003 .00036 .00367 -.00028 .00261 -.00000 -.00537 .00368 -.00003 GRADIENT (SGN099) ( 26 NOV 75 ) CARRIER DATA 797/1 01 51 OSAD PARAMETRIC DATA REFERENCE DATA BETAC -ALPHAC = 8.000 XMRP \* 1339.9000 IN.XC 3.000 ELV-09 -5500.0000 SQ.FT. .000 ELV-18 = .0000 IN.YC YMRP = .600 327.7800 IN. MACH = 5.000 ELEVON = BREF = 2348.040C IN. ZMRP 190.8000 IN.ZC 7.500 PHI -5.000 EETAO = 10.000 .0300 DY .000 ĐΧ

RN/L =	3.25	GRAD LNT	INTERVAL	=	.00/ 12.00
--------	------	----------	----------	---	------------

ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .74778 .75342 .75985 .77344 .79225 .80781 .83645 .80159	CA-C 02849 02921 03022 03123 03253 03258 02592 08023	CLM-C 28998 24969 24943 26036 26036 26262 26611 00266	CY-C 02120 02252 02082 01046 010934 01001 00020	0c 00017 00093 00171 00234 00138 00143 00193 00020	CYN-C 00064 .00218 .00454 .00618 .00297 .00241 .00316 .00070	CL-C .73973 .74541 .75191 .76547 .76423 .79952 .82658	CD-C .10374 .10402 .10414 .10550 .10747 .10975 .12177	CSL-C 00042 00064 00100 00133 00095 00109 00145 00008	CLN-C 08077 .00233 .00479 .00652 .00319 .00265 .00347 .00073
----------	--------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------------	----------------------------------------------------------------------	----------------------------------------------------------------------------	--------------------------------------------------------------------------------------	----------------------------------------------------------------------------	----------------------------------------------------------------------------	-------------------------------------------------------------------------------	--------------------------------------------------------------------------------------

N.	DATE	26	NOV	75
	SREF	=	55	00.

TABULATED SCURCE DATA - CARO

.43957

.00303

60.000

GRADIENT

-.000009

.00075

-.00028

,43485

.00297

.02117

-.00029

PAGE 979

### (56N099) ( 26 NOV 75 ) CARRIER DATA 747/1 OI SI CA20 PARAMETRIC DATA REFERENCE DATA 8.000 BETAC ALPHAC = XMRP = 1339.9000 IN.XC .0000 SQ.FT. .000 ELV-OB = 3.000 ELV-IB \* YMRP # .0000 IN.YC 327.7800 IN. .600 MACH = ELEVON = 5.000 ZMRP .= BREF = 2348.0400 IN. 190.8000 IN.ZC 7.500 PHI BETAO = -5.000 .0300 SCALE = 10.000 .000 DY אמ RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000 CSL-C CLN-C OF POOR QUALITY CD-C CL-C CBL-C CYN-C CY-C CLM-C CA-C DZ CN-C .00229 .00112 .64891 .08694 -.03630 .00217 .00149 -.12190 .000 .65542 -.02927 .00168 .00324 .09837 .00347 .65768 .00120 -.03462 3.000 7.500 -.14456 .66432 -.02938 .00680 .00122 .09128 .00013 .00690 .67610 -.03403 -.17957 -.02971 .68296 .00927 .09477 .00024 -.00126 .00917 .70099 -.03060 -.03117 -.21308 15.000 .70808 .00785 -.00031 10064 .74125 -.00157 .00767 -.02085 -.24512 .74874 -.03182 30.000 .00346 -.00019 .10467 .00337 .76739 -.01055 -.00068 .77519 -.03239 -.24978 45.000 .00286 .10969 -.00047 .78762 .00272 -.25390 -.00837 -.00085 -.03095 .79598 -.00014 60.000 .00076 .00058 .00366 .00072 -.00770 .00029 -.00027 .00371 -.00005 GRADIENT (50N100) ( 26 NOV 75 ) CARRIER DATA CAZO 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 5.000 4.000 BETAC = ALPHAC = 5500.0000 SQ.FT. XMRP - 1339.9000 IN.XC 3.000 SREF = .000 ELV-OB = ELV-IB -YMRP = .0000 IN.YC ZMAP = 190.8000 IN.ZC LREF = 327.7900 IN. BREF = 2349.0400 IN. .600 MACH ELEVON = 5.000 7.500 BETAG = -5.000 PHI SCALE = .0300 10,000 .000 DY RN/L = 3.31 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000 CSL-C CL-C CD-C CBL-C CYN-C CY-C CLM-C DZ CN-C CA-C .02541 .04555 -.01043 .02399 -.12035 -.01322 -.08040 .000 .32821 .00851 .02587 -.01103 33321 .04843 .02438 .02196 -.01386 -.09628 -.11660 .33769 .01041 3.000 -.01118 .02345 .34628 .05122 -.01376 -.10704 .35098 .01182 7.500 .05324 -.01128 .02163 .02014 .36682 -, 15548 -.09895 -.01367 .37161 .01168 15.000 -.01112 .02077 .05425 .39444 .01930 -.01341 -.18209 -.09218 .00980 .39919 30.000 .02079 .05476 -.01100 .41353 -.01330 .01934 -. 19925 -.09070 .00831 .41023 45,000 .02265 -.01112 .05602

-.09555

.00180

-.22420

-.00583

.00734

.00043

-.01362

-.00006

	CA20 747/1	91 51	CARRIER DATA	(56N180) ( 26 NOV 75 )
REFERENCE DATA				PARAMETRIC DATA
SREF = 5500.0000 SQ.FT. XM LREF = 327.7800 IN. YM	RP = 1339.9000 1N.XC RP = .0000 1N.YC RP = 190.8000 1N.ZC	;	ALPHAC = ELV-IB = ELEVON = ETAO = DX	4.000 BETAC = 5.000 .000 ELV-08 = 3.000 5.000 MACH = .600 -5.000 PHI = 7.500 .000 DY = 10.000
	RN/L = 3.28	GRADIENT INTERVAL =	.00/ 12.00	
ALPHAO = 14.000  DZ	.0092303466 .0114708048 .0117414121 .0103617190 .0090619064	31316801269 31253401369 21143301430 10936401371 00956701360 40934901359	.02695 .25419 .02777 .27032 .02598 .30052 .02197 .34679 .02133 .37715 .02058 .39870	.0529901109 .05291 .0539501116 .05206
	CA20 747/1	O1 S1	CARRIER DATA	(56N101) ( 26 NOV 75 )
REFERENCE DATA	CA20 747/1	01 51	CARRIER DATA	(SGN101) ( 26 NOV 75 ) PARAMETRIC DATA
IREF - 327.7800 IN. Y	CA20 747/1 MRP = 1339.9000 IN.X MRP = .0000 IN.X MRP = 190.8000 IN.Z	c c	CARRIER DATA  ALPHAC = ELV-1B = ELEVON = BETAO = DX =	PARAMETRIC DATA  8.008 BETAC = 5.000  .000 ELV-08 = 3.000  5.000 MACH = .600
SREF = 5500.0000 SQ.FT. X LREF = 327.7800 IN. Y BREF = 2348.0400 IN. Z	MRP = 1339.9000 IN.X	c c	ALPHAC = ELV-1B = ELEVON = BETAO =	PARAMETRIC DATA  8.000 BETAC = 5.000 .000 ELV-0B = 3.000 5.000 MACH = .600 -5.000 PHI = 7.500

CY-C

.09369

.09456

.08916

.09713

.88474

.08448

.08449

-.00065

CLM-C

-.05440

-.09168

-.12183

-.19947 -.17765

- 19408

-.21247

-.00390

CBT-C

.01028

.01163

.01171

.01206

.01278

.01346

.01423

.00018

CYN-C

-.01957

-.01914

-.01784

-.01815

-.01845

-.01891

-.01961

-.00026

ALPHAC = 10.000

DZ

.000

3.000

7.500

15.000

30.000

45.000

60.000

GRADIENT

CN-C

.35158

.35021

.36248

.37722

.40003

.41655

.43458 .00155

CA-C

.00984

.00943

.00989

.00981

.00917

.00705

.00576

.00011

3.000

.600

7.500

10.000

CLN-C

.02546

.02564

.02583

.02343

.02055

.02065

.01993

.00005

3.000

.680

.000

.000

CLN-C

-.01659

-.02037

-.0190B

-.01943

-.01980

-.02033

-.02111

-.00027

CSL-C

.00844

.00941

.00952

.00994

.01062

.01125

.01195

.00015

CD-C

.04854

.04869

.05063

.05209

.05284

.05345

.05406

.00027

CL-C

.34715

.34574

.35790

.37255

.39542

.41197

.43004

.00153

DATE 26 NOV 75	TABULA	TED SOURCE D	IAIA - CA	<b>2</b> 0						
		CA20	747/1	O1 S1	ı	CARRIER DATA		(5GN10	4) (26 NO	v 75 )
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. EREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP	= 1339.900 = .000 = 190.800	10 IN.XC 10 IN.YC 10 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX	4.000 5.000 5.000 10.000	BETAC = ELV-OB = MACH = PHI = DY =	-5.000 3.000 .609 .000
•		RN/L =	3.28	GRADIENT INTE	RVAL =	.60/ 12.00				•
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .27689 .28109 .28136 .32001 .35721 .38330 .40092	.01003 .01018 .00877	CLM-C .03986 .02460 00772 06422 12853 18050 00629	CY-C .08288 .09169 .09075 .08558 .07823 .08294 .08303 .00095	CBL-C .00757 .00598 .01141 .01199 .01155 .01346 .00050	CYN-C 00893 01661 01647 01739 01466 01826 01826	CL-C .27308 .27724 .29031 .31565 .35263 .37872 .39637	CD-C .03983 .03938 .04205 .04933 .05037 .05170 .05239 .00044	CSL-C .00643 .00903 .00926 .00994 .00977 .01091 .01126 .00037	CLN-C 00978 01768 01969 01866 01864 02028 02028
		CASO	747/1	01 51		CARRIER DATA		(SGN10	5) ( 26 NO	V 75 1
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP	= 1339.900 = 000 = 190.800	IN.XC ID IN.YC ID IN.ZC				ALFHAC = ELV-18 = ELEVON = BETAO = DX =	8,000 5,000 5,000 -5,000 10,009	BETAC = ELV-OB = MACH = PHI = DY =	-5.000 3.000 .600 .000
		RN/L =	3.26	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .76708 .76778 .77211 .7784 .79504 .80960 .82554 .00070	CA-C 02983 03018 03023 03102 03283 03337 03442 00005	CLM-C 25925 26113 26594 26149 26930 26439 26700 00103	CY-C .08870 .08547 .08016 .07751 .08050 .07775 .07757	CBL-C .01191 .01252 .01264 .01267 .01451 .01483 .01581	CYN-C 01540 01604 014478 01733 01632 01676	CL-C .75970 .76047 .76474 .77131 .78876 .80221 .81809	CD-C .10500 .10478 .10548 .10564 .10707 .10890 .11063	CSL-C .00909 .00958 .00959 .00955 .01132 .01181 .01270	CLN-C 01712 01785 01621 01655 01947 01854 01913

TABULATED SOURCE DATA - CA20

( 25 NOV 75 1 (CONTRE)

		CA20	747/1	01 S1	Ç	CARRIER DATA		(5GN10	5) (26 NO	
REFERENC	CE DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ. LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	.FT. XMRP	= .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	8.000 .000 5.000 -5.000 10.000	BETAC = ELV-0B = MACH = PHI = DY =	-5.000 3.000 .600 .300
		RN/L =	3.32	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .69798 .70045 .71323 .72873 .75462 .77549 .79244 .00210	CA-C 03061 03009 02986 03025 03164 03268 03336	CLM-C 14182 15529 18048 20580 23314 24462 25326 00519	CY-C .09912 .09579 .08987 .08442 .08126 .07922 .07824	CBL-C .01141 .01267 .01280 .01317 .01435 .01484 .01536	CYN-C 01816 02026 01857 01732 01720 01691 01671 00002	CL-C .69181 .69415 .70670 .72202 .74780 .76850 .76531 .00205	CD-C .09223 .09317 .09561 .09792 .10365 .10365 .10593	CSL-C .00912 .00900 .00942 .01000 .01119 .01172 .01226 .00017	CLN-C 01975 02204 02040 01923 01932 01912 01901 00005
		05AC	747/1	01 SI	ı	CARRIER DATA	4	(5GN10	6) (26 NO	OV 75 )
REFEREN	ICE DATA	CA20	747/1	01 S1	ı	CARRIER DATA	4	(5GN10 PARAMETRIC		OV 75 }
REFEREN  SREF * 5500.0000 SQ  LREF = 327.7800 IN  EREF = 2348.0400 IN  SCALE = .0300	I.FT. XMRP	= 1339.90 = .00	747/1 000 IN.XC 000 IN.YC 000 IN.ZC	01 S1	,	CARRIER DATA	ALPHAC = ELV-18 = ELEVON = BETAO = DX =			-5.000 3.000 .600 .000
SREF = 5500.0000 SQ LREF = 327.7800 IN EREF = 2348.0400 IN	I.FT. XMRP	= 1339.90 = .00 = 190.80	000 IN.XC		DIENT INTE		ALPHAC = ELV-IB = ELEVON = BETAO =	PARAMETRIC 4.000 .000 5.000 -5.000	BETAC = ELV-0B = MACH = PHI =	-5.000 3.000 .600

CA20 747/1 01 51

CARRIER DATA

(5GN107) ( 26 NOV 75 )

PARAMETRIC DATA

## REFERENCE DATA

LREF =	500.0000 SQ.F 327.7800 IN. 348.0400 IN. .0300	T. XMAP YMRP ZMRP	.00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.000 .000 5.000 -5.000 10.000	EETAC = ELV-OB = MACH = PHI =	-5.000 3.000 .600 7.500 10.000
			RN/L =	3.25	GRADIENT INTE	ERVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .73042 .73079 .73422 .74375 .76181 .77658 .79963 .00053	CA-C 03104 03128 03188 03251 03393 03475 03518 00011	CLM-C 24988 25463 25463 25693 26939 27431 00129	CY-C 14633 14102 13592 12968 12519 12301 11800 .00137	CBL-C 01798 01810 01832 01813 01844 01827 01804 00004	CYN-C .02551 .02558 .02558 .02485 .02486 .02486 .02213 .00001	CL-C .71977 .72017 .72366 .73315 .75117 .76764 .78864 .00054	CD-C .10487 .10470 .10470 .10573 .10577 .10557 .11281 00002	CSL-C 01378 01393 01407 01402 01415 01416 01440 00004	CLN-C .02793 .02823 .02807 .02731 .02838 .02735 .02461 .00001
ALPHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .65077 .65677 .67014 .66986 .71899 .74272 .76314 .00261	CA-C 03767 03545 03526 03526 03455 03487 03517	CLM-C 16477 17737 19981 22435 24370 25096 25970 00470	CY-C 16757 16100 15242 14045 12587 12587 12355 .00201	CEL-C 01982 02051 02114 02096 01917 01839 01918 00017	CYN-C .03033 .03060 .03048 .02808 .02588 .02572 .02501	CL-C .64247 .64818 .66116 .69036 .70911 .73254 .75271	CD-C .08451 .08575 .09014 .09364 .09942 .10323 .10648	CSL-C 01474 01537 01601 01624 01487 01413 01404 00017	CLN-C .03300 .03339 .03338 .03098 .02851 .02821 .02746 .00005

i------. . . .

1	DATE 26	NOV	75	TABULAT	TED SOURCE	DATA - CA	<b>7</b> 20						
					CASO	747/1	01 51		CARRIER DATA	i	(5GN10	8) ( 26 NO	V 75 )
			REFERENC	E DATA							PARAMETRIC	DATA	
	SREF = LREF = BREF = SCALE =	3	00.0000 SQ. 27.7800 IN. 348.0400 IN. .0300	FT. XMRP YMRP	= .0	000 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-1B = ELEVON = ELTAO = DX =	8.000 .000 5.000 -5.000	BETAC = ELV-OB = MACH = PHI = DY =	-5.000 3.000 .600 .000
					RN/L ≖	3.24	GRADIENT	INTERVAL =	.00/ 12.00				
ORIGINAL! PAGE	ALPHAO	=	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .76629 .76727 .77150 .77954 .79446 .80848 .82319 .00064	CA-C 02805 02843 02873 02982 03099 03251 03397 00009	CLM-C 27467 27035 26319 26392 26392 26321 .00069	.069 .069 .072 .073 .075	68 .01377 30 .01443 27 .01452 24 .01472 50 .01526 34 .01539 34 .01578 907 .00009	01365 01369 01493 01476 01520 00002	CL-C .75922 .75967 .76389 .77199 .78689 .80095 .81570 .00065	CD-C .10672 .10641 .10565 .10717 .10661 .10955 .11067	CSL-C .01126 .01196 .01216 .01216 .01247 .01263 .01294	CLN-C 0155! 0163! 01596 01592 01724 01710 01759 00003
					RN/L =	3.26	GRADIENT	INTERVAL =	.00/ 12.00				
え	ALFHAO	<b>a</b>	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .69548 .69989 .71084 .72768 .75407 .77514 .79175	CA-C 02748 02723 02782 02782 02924 03082 03203 00005	CLM-C 17751 18326 19854 23205 24479 25026 00285	.069 .069 .069 .069	608 .01715 561 .01718 581 .01691 678 .01554 632 .01550 978 .0155	01571 01517 01123 01124 01332 01462	CL-C .68880 .69310 .70399 .72057 .74681 .76783 .78440	CD-C .09488 .09589 .09720 .10013 .10332 .10542 .10712	.01300	CLN-C 01818 01834 01777 01365 01357 01570 01699 .00006

		CAEO	747/1	01 51		CARRIER DATA		15GN10	9) ( 26 NO	v 75 )
RE	FERENCE DATA							PARAMETRIC	DATA	
			IN.XC IN.YC IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4.000 .000 5.000 -5.800 10.000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 .000
		RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
3. 7. 15. 30. 45.	CN-C 800 .33921 000 .34246 500 .35414 000 .37075 000 .39637 060 .41211 000 .42980	.01588 .01615 .01579 .01417 .01308 .01191	CLM-C 09908 10081 12335 12116 18209 19922 21879 00323	CY-C 01323 01136 00151 00151 00044 +.00079 00128 .00086	CBL-C 00524 00474 00385 00162 00090 00021 .00019	CYN-C .00630 .00506 .00505 00014 00025 00027 00036	CL-C .33424 .33739 .34997 .36553 .39118 .40695 .42466 .00201	CD-C .05369 .05480 .05829 .05766 .05973 .05930 .05988	CSL-C 00460 00413 00366 00168 00088 00089 00089	CLN-C .00581 .00582 .00411 .00091 .00092 00017 00026 00037
3. 7. 15. 30. 45.	CN-C 000 .26737 000 .27154 500 .28576 000 .31434 000 .35399 000 .39039 000 .39770	.01521 .01516 .01397 .01301	CLM-C .03147 -00579 -00555 -13203 -16273 -18236 -00509	CY-C 01789 01352 00659 00185 00195 00186 00123	CBL-C 00713 00610 00492 00312 00146 00100 00065	CYN-C .00926 .00757 .00528 .00124 00124 00042 .00016 00053	CL-C .26331 .26733 .28126 .30950 .34894 .37530 .39262 .00245	CD-C .04128 .04286 .04641 .05128 .05528 .05772 .00069	CSL-C 00618 00533 00440 00163 00109 0069 .0083	CLN-C .00934 .00916 .00578 .00159 00108 00032 .00022

•

DATE 26 NOV 75	TABULA	TED SOURCE D	ATA - C	024					PAG	E SB/
		CA20	747/1	01 51		CARRIER DATA		(SGNI 1	0) (26 NO	v 75 )
REFERENCE	DATA		-					PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP		O IN.XC O IN.YC O IN.ZC				ALPHAC = ELV-18 = ELEVON = ETAO = DX =	8.000 .000 5.000 -5.000 10.000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 .000
		RN/L =	3.28	GRADIENT IN	ITERVAL =	.00/ 12.00				
ALPHAC = 10.000 02 .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .77187 .77256 .77665 .78649 .80243 .81326 .82533	CA-C 03112 03149 03212 03339 03415 03418 03439 00013	CLM-C 26942 26675 26958 26956 26509 26233 25956 .00002	00570 00383 00158 00169	CBL-C 00333 00287 00282 00151 00106 00039 .00015	CYN-C .00218 .00157 .00099 .00024 .00023 00000 00008	CL-C .76312 .76465 .77075 .78066 .78453 .80520 .81712 .00104	CD-C .10520 .10509 .10553 .10599 .10765 .10951 .11140	CSL-C 00302 00265 00212 00155 0011 00048 .00006 .00012	CLN-C .00269 .00207 .00139 .00052 .00043 .00009 00009
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .70434 .71165 .72309 .73901 .76468 .78458 .79948	CA-C 03166 03133 03200 03286 03427 03471 03495 00005	CLM-C 16303 17439 19285 21708 23908 24691 25268 00399	01143 00310 .00055 .00036 00250 00470	CBL-C 00504 00433 00208 00142 00113 00091	.00511 .00122 00059 00120 .00034	CL-C .69750 .70464 .71602 .73165 .75737 .77705 .79176	CD-C .09308 .09468 .09500 .09792 .10098 .10401 .10636	CSL-C 00411 00348 00304 00285 00171 0016 00082	CLN-C .00631 .00581 .00178 00019 00090 .00055 .00120 00063

		CAED	747/1	01 SI	C	ARRIER DATA		(5GN11)	1) (E6 NO	V 75 )
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7900 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP	= .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = EETAO = DX =	4.000 .000 5.000 -5.000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 .000
	RUN NO.	07 0	RN/L =	3.33 GRA	DIENT INTER	VAL = .0	0/ 12.00			
ALPHAO DZ 10.000 .000 10.000 3.000 10.000 7.500 10.000 15.000 10.000 30.000 10.000 45.000 10.000 60.000 GRADIENT	CN-C .28889 .29895 .31443 .35775 .37023 .39038 .41056 .00341	CA-C .01765 .01789 .01776 .01767 .01482 .01293 .01120 .00001	CLM-C 08180 07724 10112 13583 17229 19131 21153 00525	CY-C 01456 01449 01636 01854 01424 01017 00816 00026	CBL-C .00500 .00492 .00302 .00119 .00003 00038 00040	CYN-C 00450 00259 .00106 .00469 .00461 .00255 .00256	CL-C .28393 .29391 .30932 .37264 .36512 .36535 .40539	CD-C .05095 .05225 .05374 .05459 .0565 .0565 .05726	CSL-C .00545 .00460 .00305 .00162 .00048 .00018 00018	CLN-C 08511 08580 .08973 .08453 .08477 .00354 .00238
					_	<b></b>		(59N11	2) (26 NG	W 75 1
		CASO	747/1	01 SI	C	ARRIER DATA		1201411	6) ( CO W	, in ,
REFERENCE	DATA	CAS0	747/1	01 SI	C	ARRIER DATA	•	PARAMETRIC		)¥ 1,5 ,
REFERENCE SREF = 5500.0000 SQ.F LREF = 327.7800 IN. EREF = 2340.0400 IN. SCALE = .0300	T. XMRP YMRP	* 1339.90 = .00	747/1 000 IN.XC 000 IN.YC 000 IN.ZC	01 SI	c	ARRIER DATA	ALPHAC = ELV-10 = ELEVON = ETAO = DX			.000 3.300 .630 .000
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. EREF = 2348.0400 IN.	T. XMRP	* 1339.90 = .00	OO IN.XC	01 SI  GRADIENT INT		.00/ 12.00	ALPHAC = ELV-1B = ELEVON = BETAO =	PARAMETRIC 4.000 .000 5.000 -5.000	BETAC = ELV-OB = MACH = PHI =	.000 3.900 .690

PAGE	989
------	-----

DATE 26 NOV 75	TABULATED SOURC			CA	RRIER DATA		(SGN112		
SREF = 5500.0000 SQ.; LREF = 327.7800 IN. BREF = 2340.0400 IN. SCALE = .0300	FT. XMRP = 1339	9000 IN.XC 0000 IN.YC 8000 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	.000	ELV-CB = MACH = DY =	3.000 .600 .000 10.000
ALPHAO = 14.000 DZ .000	RN/L CN-C CA-C .26481 .01100	CLM-C .04820 .03219	CY-C 01568 01563	.00620 CBL-C	.00.51 \00. CYN-C \$1200 00400	CL-C .26067 .26739 .28181	CD-C .04183 .04370 .04690	CSL-C .00615 .00570 .00447	CLN-C 00681 00464 .88007 .08457
3.000 7.500 15.600 30.000 45.000 60.000 GRADIENT	.26636 .01363 .31399 .0149 .35493 .0145 .39162 .0135 .40058 .0127 .00291 .0003	00130 06186 13188 16129 18318	01872 02140 02299 01462 01062 00043	.00449 .00219 00073 00019 00013 00032	.00484 .00875 .00537 .00371 .00090	.30918 .34993 .37657 .39552 .00285	.05066 .05474 .05670 .05772 .00069	.00253 .00019 .00032 .00021 00023	.00877 .00535 .00370 .00093
-							(56N1 )	(3) (26 N	ov 75 )
	С	1747/1	01 51	Ç	CARRIER DATA	4			
REFEREN SREF = 5500.0000 SC LREF = 327.7800 IN SREF = 2348.0400 IN SCALE = .0300	CE DATA  I.FT. XMRP = 133	9.9000 IN.XC 0.0000 IN.XC 10000 IN.YC	01 SI		CARRIER DATA	ALPHAC = ELV-18 = ELEVON = BETAO = OX	9.000 .000 5.000 -5.000		.000 3.000 .600 .000

12<u>1</u>22

		CA20	747/1	01 SI	c	ARRIER DATA	<b>,</b>	(5GN11	e) ( 25 NO	v 75 )
REFERENCE	DATA							PARAMETRIC	DATA	
SREF - 5500.0000 SQ.F' LREF = 327.7800 IN. EREF = 2348.6400 IN. SCALE = .0300	T. XMRP YMRP ZMRP	a .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = OX =	8.000 .000 5.000 -5.000 10.000	BETAC = ELV-CB = MACH = PHI = DY =	.000 3.000 .600 .000
	RUN NO.	0/ 0	RN/L =	3.22 GRA	DIENT INTER	RVAL = .O	12.00			
ALPHAO DZ 14.000 .000 14.000 3.000 14.000 7.500 14.000 15.000 14.000 30.000 14.000 45.000 14.000 60.000 GRADIENT	CN-C .70334 .70869 .72171 .74106 .77026 .78927 .80207	CA-C 03187 03164 03273 03395 03496 03499 03474 00012	CLM-C 12807 13707 16786 19835 23273 23848 24674 00543	CY-C 01934 02267 02516 02573 01844 01442 01215 00076	CBL-C .00431 .00272 .00134 00063 00063 00072 00084 00039	CYN-C 00392 -00047 -00418 -00746 -00620 -00485 -00418 -00106	CL-C .69554 .70197 .71479 .73404 .76299 .78073 .79427 .00247	CD-C .09270 .09389 .09504 .09730 .10128 .10437 .10702 .00031	CSL-C .00346 .00265 .00194 .00104 .00035 .00003 00020	CLN-C 00459 .00001 .00391 .00740 .00624 .00499 .00429
		CAZG	747/1	01 SI	1	CARRIER DATA	A	(5GN1 1	5) ( 26 NO	V 75 )
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BRIF = 2348.0400 IN. SCALE * .0300	T. XMRP YMRP ZMRP	= .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALFHAC = ELV-IB = ELEVON = BETAO = OX =	4.090 .090 5.090 -5.000 10.009	BETAC = ELV-OB = MACH = PHI = DY =	5.000 3.000 .600 .000
		RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000	CN-C .37128 .37237 37915 .39119 .41026 .42571	CA-C .00766 .00935 .00921 .00971 .00870 .00737	CLM-C 16749 16545 17233 18096 19101 20234 21374	CY-C 10802 10399 09752 08753 08553 08892	CBL-C 01775 01791 01791 01566 01391 01392	CYN-C .02158 .02263 .02116 .01752 .01476 .01658	CL-C .3E690 .36791 .37457 .38649 .40556 .42106 .43738	CD-C .04921 .05000 .05157 .05322 .05432 .05461	CSL-C 01515 01525 01469 01354 01354 01176	CLN-C .02389 .02455 .02301 .01923 .01630 .01850

.

TABULATED SOURCE DATA - CA20 DATE 26 NOV 75 CARRIER DATA

-.27016

-.26714

.00150

-.02901

-.03007

- 30002

.80550

.81939

.00033

45.000

60.000

GRADIENT

(5GN115) ( 26 NOV 75 ) 747/1 01 51 PARAMETRIC DATA REFERENCE DATA 5.000 BETAC = 4.000 ALPHAC = XMRP = 1339.9000 IN.XC ELV-08 = 3.000 SREF 5500.0000 SQ.FT. .000 ELV-1B = .0000 IN.YC 327.7800 IN. YMRP .600 LREF MACH = ELEVON = 5.000 ZMRP 190.8000 IN.ZC 2348.0400 IN. BREF = .000 BETAO = PHI = -5.000 SCALE = .000 .0300 10.000 DY DХ GRADIENT INTERVAL = .00/ 12.00 3.27 RN/L = ALPHAO = 14.000 CLN-C CSL-C CD-C CYN-C CL-C CBL-C CLM-C CY-C .02490 DZ CN-C CA-C -,01596 .04003 .31363 -.01866 16220. .00411 -.08505 -.11268 .31734 .000 .04102 -.01626 .31171 .02494 -.07909 -.01917 -.10985 .31553 .02510 3.000 -.01578 .04370 .02312 .31641 -.01850 -,10124 .32049 .33778 .36988 .00746 -.08335 7.500 .01957 .33337 .04778 -.01456 .01775 -.01672 -.10898 -.08801 .00975 15.000 .01345 -.01215 .36525 .05157 -.01368 .01192 .01019 -.14630 -.07563 30.000 .01703 -.01174 .01552 .01779 .38947 .05263 -.01364 .00871 -.17012 -.08284 .39409 45.000 .01929 .05320 -.01157 .40787 -.08735 -.01371 .00736 -.18755 41244 60.000 .G0003 -.00001 .00050 .00042 .00155 .00003 -.00001 .00045 00013 .00047 GRADIENT (50N116) ( 26 NOV 75 ) CARRIER DATA 747/1 01 5i CA20 PARAMETRIC DATA REFERENCE DATA BETAC = 5.000 8.000 ALPHAC = XMRP 1339.9000 IN.XC == SREF 5500.0000 SQ.FT. ELV-OB = 3.000 .000 ELV-18 = .0000 IN.YC LREF 327.7800 IN. YMRP MACH = .600 5.000 ELEVON = ZMRP 190.8000 IN.ZC BREF 2348.0400 IN. .000 = -5.000 FHI BETAO = SCALE = .0300 .000 10.000 DY = GRADIENT INTERVAL = .00/ 12.00 RN/L = 3.26 ALPHAO = 10.000CLN-C CD-C CL-C CYN-C CBL-C CN-C .77033 CLM-C CA-C DZ -.00970 .02033 .76224 .10971 -.01313 .01825 -.10172 -.29179 -.02590 .000 -.00977 .02028 .76229 .10851 .01818 -.09877 -.01319 -.02710 -.28509 .77034 3.000 .10992 .01909 -.00959 .76457 -.01280 .01704 -.09039 -.28023 -. ~2710 7.500 .77265 .77052 .78362 .79725 -.00887 .01721 .01532 -.08362 -.01177 -.02708 -.27838 .77870 15.000 .01654 .11124 -.00809 .01479 -.08124 -.01088 -.27009 .79181 30.000

-.01104

-.01101

.00005

-.08614

-.08986

.00150

.01718

.01913

-.00017

PAGE SSI

.01893

.02083

-.00017

.11273

.11410

.00003

.81111

.00033

-.00783

-.00746

DATE 26 NOV 75	IASULA	IED SOURCE D	AIA - CA	E0						
		CA20	747/1	01 S1	(	CARRIER DATA		(5GN11)	6) ( 26 %)	v 75 )
RE	FERENCE DATA							PARAMETRIC	DATA	
			O IN.XC O IN.YC O IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX	3.000 .000 5.000 -5.000 10.000	BETAC = ELV-OB = MACH = PHI = DY =	5.000 3.000 .600 .000
		RN/L =	3.26	GRADIENT IN	NTERVAL =	.00/ 12.00				
3. 7. 15. 30. 45.	CN-C .000 .70912 .000 .71091 .500 .71667 .100 .72849 .000 .75243 .000 .77195 .000 .78952	02795 02721 02671 02722 02653 02948	CLM-C 20920 21189 21659 23528 24640 25603 00100	CY-C 11123 10449 09365 08100 07466 08329 08658	CBL-C 01532 01537 01407 01237 01022 01101 01695	CYN-C .02210 .02208 .01909 .01939 .01125 .01610 .01765	CL-C .70220 .70391 .70595 .72101 .74467 .76414 .78169	CD-C .09576 .09735 .0998 .10163 .10528 .10739 .10951	CSL-C 01119 01112 01048 00552 00759 00757 00710	CLN-C .02451 .02448 .02132 .01640 .01294 .01785 .01937
		CARO	747/1	01 SI	I	CARRIER DATA		(SGN1 I	(7) ( 25 NO	IV 75 J
RI	EFERENCE DATA							PARAMETRIC	DATA	
LREF # 327.7	000 SQ.FT. XMRP 900 IN. YMRP 400 IN. ZMRP 300		00 IN.XC 00 IN.YC 00 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4.000 .000 5.000 -5.000	BETAC = ELV-08 = MACH = PHI = DY =	5.000 3.000 .600 .000
	RUN NO	0/0	RN/L =	3.29 G	RADIENT INTE	RVAL = .0	0/ 12.00			
10.000 3 10.000 7 10.000 15 10.000 30 10.000 45	.000 .31800 .000 .32407 .500 .33749 .000 .35851 .000 .40416 .000 .42233	CA-C .01089 .01107 .01056 .01020 .00823 .00553 .00482 00004	CLM-C 07900 08950 14562 17987 19608 21355 00392	CY-C 10880 10747 10708 10140 09533 09270 .00028	01020 01170 01237 01331 01359 01387	CYN-C .01485 .01771 .02075 .02041 .02101 .02084 .02072 .00078	CL-C .31358 .31960 .33309 .35394 .38143 .39972 .41797 .00262	CD-C .04680 .04766 .94855 .05040 .05130 .05152 .05172	CSL-C 00687 00687 00926 00926 01084 01113 01142 00031	CLN-C .01585 .01685 .02203 .02176 .02245 .02231 .02223

DATE 26 NOV 75	TABULATED SOURCE	E DATA - CA20						PAG	E 993
	CAS	0 747/1 0	ı Sı		CARRIER DATA		(5GN11)	B) ( 26 NO	V 75 1
REFERENC	E DATA						PARAMETRIC	DATA	
SREF = 5500.0000 SQ. LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	YMRP =	9000 IN.XC 0000 IN.YC 8000 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 .000 5.000 -5.000 10.000	BETAC = ELV-OB = MACH = PHI = DY =	5.000 3.000 .600 .000
	RN/L	= 3.29 GR	ADIENT INTER	RVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C CA-C .36268 .01028 .36488 .00998 .37519 .00898 .39052 .00932 .41507 .00722 .42927 .00630 .44497 .00514 .0017200018	CLM-C 10414 10981 12827 16195 19179 20300 21569 00329	CY-C 10389 10559 10667 10082 09971 09486 09090 00036	CBL-C 00913 01058 01185 01239 01349 01343 01356	CYN-C .01437 .01812 .02152 .02037 .0205 .02042 .01944 .00094	CL-C .35807 .35031 .37065 .38586 .41050 .42472 .44045	CD-C .05090 .05074 .05092 .05286 .05334 .05391 .05440	CSL-C 00737 00842 00933 00999 01091 01102 01126 00026	CLN-C .01542 .01930 .02281 .02173 .02351 .02188 .02092 .02097
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C	CLM-C .02892 .02597 .00075 06548 13915 17042 18902 00390	CY-C 10874 10820 11088 10916 10328 09975 09588 00031	CBL-C 00673 00805 00979 01122 01263 01317 01322 00041	CYN-C .01097 .01455 .02053 .02296 .02304 .02258 .02132	CL-C .29780 .29577 .30326 .32928 .36726 .39258 .41016 .00080	CD-C .03520 .03770 .04153 .04612 .04995 .05166 .05284	CSL-C 00534 00628 00739 00855 00995 01054 01071 00027	CLN-C .01178 .01548 .02161 .02417 .02440 .02400 .02275

747/1 01 SI CAZO

-.24708

-.25647

-.00461

CARRIER DATA

( 25 NOV 75 ) (5GN119)

PARAMETRIC DATA

.10934

.00024

.02171 .02077 .01989

.00105

.78142

.00163

-.00595

-.00015

PEFFRENCE DATA	

.73010 .75472 .77397 .78932

.00165

-.02939

-.02961

-.00005

45.000

50.000

GRADIENT

LREF =	500.0000 SQ.F 327.7800 IN. 348.0400 IN. .0300	T. XMRP YMRP ZMRP		O IN.XC O IN.YC O IN.ZC				ELEVON = BETAO = DX =	8.000 .000 5.000 -5.000 10.000	BETAC = ELV-OB = MACH = PHI = DY =	5.000 3.000 .600 .000 10.000
			RN/L =	3.23	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAC =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .76912 .76990 .76941 .77308 .79039 .80359 .81935 .00015	CA-C 02517 02598 02661 026592 02856 02851 02930 00019	CLM-C 26035 26227 25597 26557 27084 27090 27157 .00051	CY-C 10200 10263 09941 09676 09510 09040 06690	CBL-C 00710 00809 00900 00942 01070 01036 01072 00025	CYN-C .01469 .01730 .01828 .01909 .02066 .01875 .01822 .00046	CL-C .75977 .76166 .76129 .76496 .78229 .79528 .81093 .00018	CO-C .11002 .10954 .10884 .10917 .11056 .11289 .11485 00016	CSL-C 00438 00491 00562 00590 00689 00583 00733	CLN-C .01578 .01953 .01955 .02052 .02229 .02035 .01999 .00050
			RN/L =	3.22	GRADIENT INTE	RVAL =	.00/ 12.00				
* CAHPJA	14.000 DZ .000 3.000 7.500 15.000 30.000	CN-C .70536 .71011 .71859 .73010 .75472	CA-C 02803 02835 02841 02860 02932 02938	CLM-C 14879 16106 18318 20626 23721	CY-C 10869 11114 11079 10462 09938 09515	CBL-C 00621 00782 00879 00939 01036 01053	CYN-C .01322 .01799 .02130 .02124 .02171	CL-C .69944 .70319 .71156 .72292 .74729 .76627	CD-C .09648 .09682 .09824 .10005 .10362	00637	CLN-C .01418 .01916 .02259 .02263 .02327 .02337

-.09938 -.09515

-,09215

-.00025

-.00782 -.00782 -.00879 -.00939 -.01053 -.01062 -.00033

.02263 .02327 .02327 .02237 .02152

TABULATED SOURCE DATA - CA20

DATE 26 NOV 75	TABULA	TED SOURCE L	JAIA - CA	1C0						
		CA20	747/1	01 51	•	CARRIER DATA		(5GN12)	3) ( 26 NO	)V 75 }
REFERENCE	ΠΔΤΔ							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300		= .000	IN.XC IN.YC IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4.000 .000 5.000 -5.000	BETAC = ELV-08 # MACH = PHI = DY =	-5.000 .600 .500 .000
		RN/L =	3.26	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.090 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .32139 .32665 .33910 .35724 .39292 .40145 .42030 .00239	CA-C .01299 .01276 .01229 .01188 .00977 .00806 .00568 00009	CLM-C 10465 10211 10894 12317 13673 14863 16225 00065	.06901 .07191 .07481	CBL-C .01745 .01722 .01636 .01496 .01404 .01334 .01225 00015	CYN-C 01524 01563 01466 01321 01376 01445 01502 .00006	CL-C .31671 .32197 .33440 .35247 .37624 .39685 .41574 .00239	CD-C .04941 .04974 .05057 .05206 .05285 .05288 .05348 .00016	CSL-C .01560 .01534 .01456 .01334 .01237 .01159 .01045	CLN-C 01710 01746 01660 01482 01527 01589 01634 .00008
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .24935 .25711 .27022 .29850 .34149 .36893 .36935 .00279	CA-C .01126 .01212 .01306 .01342 .01238 .01045 .00858	CLM-C 02541 03006 06292 10238 12421 14056 00089	CY-C .05385 .05768 .05811 .0562 .05120 .06197	CBL-C .02190 .02149 .02045 .01812 .01352 .01322 .01327	CYN-C 01446 01539 01435 01203 00582 01011 01383 .00003	CL-C .24525 .25287 .26581 .29390 .33677 .36415 .38496	CO-C .04017 .04183 .04414 .04745 .05091 .05185 .05215	CSL-C .02011 .01961 .01868 .01660 .01268 .01193 .01159	CLN-C 01679 01767 01552 01398 00732 01156 01526 .00005

DATE 26 NOV 75	IABULAT	ED PARKET DI	AIN " UN	LV					_	
		CA20	747/1	01 51		CARRIER DATA		(5GN121	( 26 NO	V 75 )
555	PREMISE DATA							PARAMETRIC	DATA	
REF	ERENCE DATA								BETAC =	-5.000
SREF = 5500.000 LREF = 327.780 BREF = 2348.040 SCALE = .030	O IN. ZMRP	= 1339.900 = .000 = 190.800	0 IN.YC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	8.000 .000 5.000 -5.000 .000	ELV-OB = MACH = PHI = DY =	.000 .600 .000
		RN/L =	3.25	GRADIENT INTER	RVAL =	.00/ 12.00	•			
3.1	CN-C 000 .73633 000 .74023 500 .74733 000 .75823 000 .77652 000 .79085	02520 02619 02714 02920 03041 03157 00028	CLM-C 22800 22738 22637 22448 22448 22882 22882 22882	CY-C .05954 .06071 .06117 .06332 .06908 .07134 .07362 .00021	CBL-C .01454 .01486 .01479 .01472 .01529 .01525 .01518	01223 01223 01400 01442 01488	CL-C .72843 .73247 .73964 .75054 .76891 .78324 .79787	CD-C .10538 .10490 .10515 .13611 .10726 .10855 .10996 00002	CSL-C .01205 .01239 .01249 .01241 .01255 .01255 .01240	CLN-C 01546 01542 01459 01633 01674 01718 .00013
		RN/L =	3.24	GRADIENT INTE	HVAL =	.007 12.00				
3. 7. 15.	CN-C 000 .64989 000 .65786 500 .67436 000 .69830 000 .73149 000 .75768 000 .77673	CA-C +.02234 02300 02405 02527 02735 02921 03063 00023	CLM-C 14915 14964 16640 18567 19590 20734 21221 00241	.05299 .05495 .04920 .05553	CBL-C .01986 .01938 .01819 .01606 .01457 .01503 .01503	01405 01318 00772 00796 01176	CL-C .64301 .65098 .66741 .69120 .72424 .75036 .76937	CD-C .09203 .09276 .09459 .09755 .10126 .10398 .10589 .00035	CSL-C .01707 .01668 .01556 .01452 .01301 .01280 .01266	CLN-C 01765 01709 01602 01028 01028 01408 01608 .00022

**DATE 26 NOV 75** 

TABULATED SOURCE DATA - CA20

CATE CO NOT	,,		CAZO	747/1	01 SI	t	CARRIER DATA		(5GN12	2) ( 26 NO	V 75 )
		DATA							PARAMETRIC	DATA	
LREF = 32	REFERENCE 0.0000 SQ.F 7.7900 IN. 8.0400 IN. .0300		= .001	IN.XC IN.YC IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.000 .000 5.000 -5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 .000 .600 .000 10.000
			RN/L =	3.33	GRADIENT INT	ERVAL =	.00/ 12.00				
	0.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .30610 .31544 .32997 .35075 .37685 .39704 .41831	CA-C .01750 .01780 .01782 .01617 .01480 .01321 .01138	CLM-C 04392 05783 07595 10586 13215 14898 16692 00425	CY-C 01431 01504 01712 02061 01470 01136 00739 00038	CBL-C .00439 .00319 .00156 00011 00067 00124 00038	CYN-C 00367 00124 .00199 .00579 .00470 .00382 .00254 .00075	CL-C .30106 .31032 .32481 .34560 .37170 .39195 .41329 .00317	CD-C .05261 .05368 .05502 .05595 .05732 .05735 .05825 .05825	CSL-C .00393 .00299 .00171 .00044 00023 00067 00102 00030	CLN-C 00412 00157 .00181 .00577 .00473 .00390 .00265 .00079
			RN/L =	3.27	GRADIENT INT	ERVAL =	.00/ 12.00				
	14.000 DZ 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .21497 .23160 .25222 .28815 .33474 .36444 .38531	CA-C .01462 .01515 .01565 .01538 .01436 .01309	CLM-C .09769 .05905 .02647 03149 09538 12236 13931 00932	CY-C 02505 02327 02484 02379 02858 01659 01622	CBL-C .00888 .00762 .00579 .00314 00096 00074 00041	CYN-C 00402 00272 .00147 .00414 .01094 .00598 .00436	CL-C .21073 .22721 .24767 .28336 .32977 .35941 .38030 .00490	CD-C .04022 .04249 .04513 .04929 .05358 .05558 .05651	CSL-C .00836 .00724 .00586 .00351 .00014 .00066 00033	CLN-C 00494 00351 .00085 .00378 .01097 .00597 .00441

CA20 747/1 01 S1

CARRIER DATA

(56N123) ( 25 NOV 75 )

PARAMETRIC DATA

	REFERENCE	DATA									
LREF =	5500.0000 SQ.FT 327.7800 IN. 2348.0400 IN. .0300	T. XMRP YMRP ZMRP	= .000	00 IN.XC 10 IN.YC 10 IN.ZC				ALPHAC = ELEVON = BETAO = DX =	8.000 .000 5.000 -5.000 .000	BETAC # ELV-OB = MACH # PHI # DY #	.000 .000 .600 .000
•			RN/L =	3.28	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .74187 .74573 .75405 .76275 .78177 .79520 .80825 .00164	CA-C 02835 02920 03927 03141 03233 03242 03252 00025	CLM-C 19902 20229 21130 21559 21768 21788 21818 00167	CY-C 02007 02095 02295 02245 01295 01165 01140 00029	CBL-C 00109 00169 00270 00369 00302 00308 00317 00022	CYN-C 00098 .00129 .00406 .00534 .00333 .00340 .00369 .00067	CL-C .73388 .73783 .74621 .75497 .77387 .78711 .79998 .00165	CD-C .10285 .10269 .10347 .10587 .10811 .11028 .00684	CSL-C 00135 00153 00206 00263 00250 00255 00258 00010	CLN-C 00075 .00158 .00450 .00591 .00383 .00391 .00421 .00070
ALFHAO =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .55065 .55896 .68551 .70811 .74202 .76470 .78165 .00334	CA-C 02931 02931 03043 03211 03312 03352 03303 00020	CLM-C 11152 12747 15116 17954 20322 20904 21353 00528	CY-C 02885 02958 02843 03095 02453 01658	CBL-C .00455 .00315 .00162 00062 00234 00264 00039	CYN-C 00243 .00108 .00350 .00816 .00835 .00518 .00438 .00078	CL-C .65400 .66224 .67874 .70129 .73466 .75727 .77409	CD-C .09918 .08924 .09102 .09329 .09918 .10173 .10519		CLN-C 00316 .08055 .00329 .00817 .00865 .00552 .00480 .00084

ملوسة أوا

TABULATED SOURCE DATA - CA20

.39695

.00357

GRADIENT

.00705

.00015

-.14932

-.00728

(5GN124) ( 26 NOV 75 ) CARRIER DATA 747/1 OI SI CA20 PARAMETRIC DATA REFERENCE DATA 5.000 4.000 BETAC = ALPHAC = 1339.9000 IN.XC XMRP 5500.0000 SQ.FT. \* .000 ELV-08 = ELV-18 = .000 .0000 IN.YC 327.7800 IN. YMRP LREF MACH .600 5.000 ELEVON = 190.8000 IN.ZC ZMRP BREF = 2348.0400 IN. PHI .000 = BETAO = -5.000 SCALE = .0300 10.000 .000 צם DΧ .00/ 12.00 GRADIENT INTERVAL = RN/L = 3.25 ALPHAO = 10.000 CSL-C CLN-C CD-C CL-C .32858 CLM-C -.05733 CYN-C CY-C CBL-C CN-C CA-C DΖ -.00832 .01779 .04805 -.10779 -.01032 .01664 .01052 .01078 .000 .33305 .02014 .04884 .33359 3.000 7.500 15.000 30.000 45.000 .33811 -.06602 -.10713 -.01145 .01888 .02207 .34527 .36539 -.01006 .04972 .02071 .01043 -.08486 -.10574 -.01250 .02164 -.01047 .05142 -.01286 .02024 .37001 .01002 -.12015 -.10045 .02238 .05204 -.01112 -.01359 .02090 .38945 .39400 .00813 -.14603 ~.09755 .05216 -.01144 .02203 -.01386 .40517 .02052 .41064 .00650 -.15879 -.09503 -.01185 .02166 .42317 1,020.1 .00472 -.17395 -.09250 -.01424 60.000 .42754 -.00023 .00056 .00022 .00225 .00053 .00226 -.00002 -.00371 .00028 -.00029 GRADIENT GRADIENT INTERVAL = .00/ 12.00 RN/L \* 3.23 ALPHAO = 14.000 CL-C .24488 .25563 CSL-C CLN-C CD-C CYN-C CBL-C CY-C CN-C CA-C CLM-C DZ .03642 -.00443 .01451 .06393 .03772 .00880 -.11624 -.11668 -.00611 .01377 .24858 .00770 .000 -.00595 -.00754 .01932 .03761 -.00814 .01B40 3.000 .25941 .00777 .02357 .27142 .04031 -.01015 .02246 -.11591 7.500 .27539 .00880 .04521 .04925 .05049 -.00873 .02346 .02223 .29887 .30320 -.03372 -.10909 -.01132 15.000 .01080 .34393 .37283 .39240 .00354 -.01022 .02384 30.000 45.000 60.000 -.01284 .02245 -.10170 -.10283 .01011 .02439 -.01108 .02291 -.01375 .37731 .00832 -.13214 -.10080

-.09698

.00005

-.01385

-.00053

.02165

.00114

PAGE 999

.02314

.00119

-.01131

-.00041

.05127

	· -										
			CASO	747/1	01 SI	(	CARRIER DATA		(5GN12	5) ( 28 NC	IV 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF = 3	500.0000 SQ.F 327.7800 IN. 348.0400 IN. .0300	T. XMRP YMRP ZMRP	<b>= .000</b>	00 IN.XC 00 IN.YC 10 IN.ZC				ALPHAC = ELV-IB = ELEVON = BETAO = DX =	9.000 .000 5.000 -5.000	BETAC = ELV-OB = MACH = PHI = DY =	5.000 .000 .600 .000
			RN/L =	3.23	GRADIENT I	NTERVAL =	.00/ 12.00				
ALPHAG =	10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .74381 .74555 .74976 .75813 .77714 .79023 .80317 .00080	CA-C 02351 02420 02497 02565 02768 02810 02842 00016	CLM-C 21103 20916 21318 22239 22916 22814 22856 00033	CY-C 10830 10473 10223 09811 09274 08928 .00054	00939 01005 01050 01133 01134 01129 00019	CYN-C .01600 .01775 .01875 .01966 .02029 .01961 .01885 .00036	CL-C .73556 .73737 .74165 .75005 .76908 .78205 .79485 .00082	CD-C .10734 .10706 .10703 .10762 .10912 .11098 .11292 00004	CSL-C 00565 00611 00658 00696 00757 00770 00779	CLN-C .01733 .01919 .02029 .02127 .02203 .02137 .02061 .00038
\$_DL;\$0 =	14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 GRADIENT	CN-C .66956 .67629 .68891 .70697 .73215 .75571 .77333 .00259	CA-C 02708 02755 02719 02752 02705 02771 02772 00001	CLM-C 12848 13348 15706 18243 20292 21358 21998 00392	11568 11297 10617 10058 09681 09377	00962 01060 01124 01088 01107 01106	CYN-C .01403 .01851 .02084 .02097 .02168 .02118 .02032	CL-C .66313 .66975 .69211 .61996 .72467 .74799 .76534 .00255	CD-C .09107 .09174 .09428 .09710 .10193 .10537 .10642	CSL-C 00488 00626 00676 00736 00689 00716 00731	CLN-C .01520 .01999 .02245 .02269 .02333 .02286 .02201

10.000

10.000

10.000

30.000

45.000

60.000

GRADIENT

.37698

.39304

.40597

.00220

.00924

.00780

.00646

.08016

-.17592 -.18755

-.19814

-.00409

PAGE 1001 DATE 26 NOV 75 TABULATED SOURCE DATA - CA20 CARRIER DATA (5GN126) ( 25 NOV 75 ) CA20 747/1 02 SI PARAMETRIC DATA REFERENCE DATA ALPHAC = 4.000 BETAC = SREF = 5500.0000 SQ.FT. XMRP = 1339,9000 IN.XC ELV-08 = ELV-IB = .000 YMRP = LREF = 327,7800 IN. .0000 IN.YC MACH = .600 5.000 BREF = 2348.0400 IN. ZMRP = 190.8000 IN.ZC ELEVON = SCALE = PHI .000 .000 .0300 BETAO # .000 .000 DY GRADIENT INTERVAL = .00/ 12.00 RUN NO. 0/ 0 RN/L = 3.28 CLN-C CD-C CSL-C CYN-C CL-C ALPHAO CN-C CA-C CLM-C CY-C CBL-C .01302 -.01443 .04450 .000 -.09545 .08358 .01451 -.01285 .29421 10.000 .29850 .01045 -.01722 3.000 7.500 .30083 .04546 .01343 -.01560 10.000 .30519 .01071 -.10162 .08260 .01530 .01354 -.01824 -.01659 .04779 .31498 .08095 .01552 10.000 .31950 .01155 -.12411 -.01815 .04973 .01329 .01526 -.01652 .33694 15.000 .01118 -.15086 .07775 10.000 .34154 -.01517 .36632 .05181 .01212 -.01369 -.17559 .07109 .01379 10.000 30.000 .37098 .01018 .05200 .01177 -.01596.01352 -.01451 .38566 .07250 10.000 45.000 .39023 .00835 -.18719 .40179 .05189 .01161 -.01775-.01631 60.000 .40627 .00656 -.19804 .07570 10.000 -.00049 .00280 .00045 .00007 .00283 -.00035 .00012 -.00048 GRADIENT .00015 -.00391 (56N127) ( 26 NOV 75 ) 747/1 02 51 CARRIER DATA 05A3 PARAMETRIC DATA REFERENCE DATA -5.000 4.000 BETAC = ALPHAC = SREF = 5500.0000 SQ.FT. XMRP = 1339,9000 IN.XC 3.000 .000 ELV-08 = ELV-18 = LREF = 327.7800 IN. YMRP = .0000 IN.YC 5.000 MACH = .600 BREF = 2348.0400 IN. ZMRo = ELEVON = 190.8000 IN.ZC BETAO = .000 PHI = .000 SCALE = .0300 .000 10.000 DY GRADIENT INTERVAL = .00/ 12.00 RUN NO. 0/ 0 RN/L = 3.34 CSL-C CLN-C CL-C CD-C CY-C CBL-C CYN-C CA-C CLM-C ALPHAO DΖ CN-C -.01520 .04451 .01305 .000 .01471 -.01362 .31632 .32049 -.09962 .08369 10.000 .00B15 .01335 -.01826 .04540 -.01663 .32077 10.000 3.000 .32501 .00857 -.10667.08455 .01533 .04738 .01347 -.01923 .33236 7.500 .33674 -.12963 .08336 .01555 -.01758 10.000 .00933 .01550 .01359 .01362 -.01932 .04925 .01341 .08082 -.01768 .34791 .35240 .00956 -.15146 10.000 15.000

.07299

.07637

-.00006

.01227

.01183

.01169

.00005

.05150

.05174

.05185

.00039

.37239

.38850

.40240

.00217

-.01423

-.01484

-.01614

-.00050

.01360

.00011

-.01574

-.01630

-.01759

-.00051

DATE CO NOT 15	17502.									
		CAZD	747/1	02 SI	C	ARRIER DATA		(SGN12E	0N 8S ) (8	v <b>7</b> 5 )
REFERENC	E DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ. LREF = 327.7800 IN. EREF = 2348.0400 IN. SCALE = .0300	FT. XMRP YMRP ZMRP	= 1339.900 = .000 = 190.800	IN.XC ID IN.YC ID IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAD = DX =	4.000 .880 5.000 .000 20.000	BETAC = ELV-OB = MACH = PHI = DY =	-5.000 3.000 .500 .000
	RUN NO.	0/0	RN/L =	3.32 GRAD	IENT INTER	VAL = .8	0/ 12.00			
ALPHAO DZ 10.000 .000 10.000 3.000 10.000 7.500 10.000 15.000 10.000 30.000 10.000 45.000 10.000 GRADIENT	CN-C .34165 .34477 .35279 .36599 .36511 .39951 .41406	CA-C .00738 .00706 .00747 .00764 .00793 .00679 .00537	CLM-C 12089 12418 14187 15936 17971 18952 19872 00289	CY-C .08279 .08489 .08482 .08179 .07413 .07377 .07527 .00025	CBL-C .01409 .01426 .01527 .01547 .01400 .01348 .01337	CYN-C 01358 01677 01804 01485 01475 01552 00051	CL-C .33745 .34058 .34851 .36162 .38061 .79505 .40967	CO-C .04595 .04595 .04721 .04876 .05104 .05142 .05152 .00018	CSL-C .01244 .01285 .01311 .01321 .01221 .01170 .01161 .00009	01510 01516 01635 01635 01635 01635 01635 01635 00062
	r	CARO	747/1	02 SI	C	ARRIER DATA		(SGN12	9) t 26 NO	V 75 )
REFERÊNC	E DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ. LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	YMRP		00 IN.XC 00 IN.YC 00 IN.ZC	•			ALPHAC = ELV-IB = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .000 .000
		RN/L =	3.31	GRADIENT INTE	RVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .30819 .31379 .33296 .35565 .35565 .40706 .42549	CA-C .01774 .01835 .01783 .01724 .01603 .01326 .01168	CLM-C 08968 08724 11660 14717 18049 19464 20645 00382	CY-C 00708 00696 00697 00764 00939 00891 00853	CBL-C .00025 .00013 00030 00078 00063 00018 00004	CYN-C .00035 .00093 .00135 .00214 .00309 .00290 .00281	CL-C .30311 .30861 .32774 .35037 .39245 .40191 .42040	CD-C .05306 .05466 .05575 .05753 .05868 .05956 .05930	CSL-C .00023 .00016 .00087 00013 00050 00037 .00006 00002	CLN-C .00032 .00091 .00135 .00216 .00315 .00295 .00281

60.000

GRADIENT

.42174

.00238

.01221

.00012

-.20523

-.00393

TABULATED SOURCE DATA - CA20

**PAGE 1003** (SGN129) ( 26 KOV 75 ) CARRIER DATA CA20 747/1 02 SI PARAMETRIC DATA REFERENCE DATA BETAC = ALPHAC = 4.000 SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC 3.000 .0000 IN.YC ELV-IB -.000 ELV-0B = YMRP = 327.7900 IN. ZMRP = 190.8000 IN.ZC ELEVON = 5.000 MACH = .600 BREF # 2348.0400 IN. BETAO = .000 PHI 23 .000 SCALE = .0300 .000 DY .000 RN/L = 3.29 GRADIENT INTERVAL = .00/ 12.00 ALPHAC = 14.000 CSL-C CLN-C CL-C CLM-C CY.-C CBL-C CYN-C DZ CN-C CA-C .04135 .00039 -.00035 .000 .21369 .21803 .01544 .02468 -.00544 .00047 -.00030 .00081 .22569 .04249 .00019 .00078 3.000 .23009 .01532 .01547 -.00691 .00016 24742 .00154 -.01049 -.00763 -.00003 .00156 .04593 .00008 7.500 .25205 .01646 .00149 .28984 -.06594 -.00693 -.00010 .00149 .28484 .05145 -.00000 .01804 15.000 .05541 00032 .00266 .34084 .01666 -.12890 -.00831 -.00054 .00262 .33570 30.000 .05711 -.00041 .00308 .00303 .36740 45.000 .37254 .01504 -.16003 -.00866 -.00058 .00397 .38864 .05787 -.00036 .00303 60.000 .39375 .01359 -.17969 -.00892 -.00063 -.03004 .00025 .00452 .00062 .00024 GRADIENT .00455 .00015 -.00477 -.00028~.00007 (SGN130) ( 26 NOV 75 ) CA2D 747/1 02 St CARRIER DATA PARAMETRIC DATA REFERENCE DATA ALFHAC = 4.000 BETAC = XMRP = 1339.9000 IN.XC SREF = 5500.0000 SQ.FT. ELV-03 = 3.000 ELV-IB = .000 YMRP = .0000 IN.YC 327.7800 IN. MACH = .600 ELEVON = 5.000 ZMRP = 190.8000 IN.ZC BREF = 2348.0400 IN. .000 PHI EETAO = .000 SCALE = .0300 10.000 DY .000 RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000 CL-C CD-C CSL-C CLN-C CYN-C CN-C CA-C CLM-C CY-C CEL-C DZ .32484 .05259 .00035 .00017 -.00593 .00038 .00021 .000 .32975 .01500 -.09122 .00027 .00063 .00057 .05398 -.00588 .00026 .32919 -.09385 3.000 .33422 .01593 .00139 .00142 .05537 .03019 .01595 -.11952 -.00652 .00010 .34218 7.500 .34728 .00196 -.00003 -.00698 -.00018 .00196 .35908 .05599 15.000 .36426 .01579 -.14702 .00314 .00311 -.00031 .05800 30.000 .29256 .01384 -.17899 -.00944 -.00059 .39743 .00296 88300. -.00039 .05869 .40855 .01284 -.19318 -.00882 -.00065 .40354 45.000 .05944 -.00049 .00263 .41662

-.00779

-.00010

-.00072

-.00004

.00016

.00236

.00037

-.00002

DATE ES NOV 75	IABULAI	ED SOURCE D	WIW - AU							
		CASD	747/1	02 S1	(	CARRIER DATA		(5GN130	126 NOV	75 )
REFERENCE [	<b>ΣΑΤΑ</b>							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	. XMRP YMRP		0 IN.XC 0 IN.YC 0 IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.800 .000 5.000 .000 10.000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 .000
		RN/L =	3.31	GRADIENT INTE	RVAL =	.00/ 12.00				
.000 3.000 7.500 15.000 30.000 45.000	CN-C .25409 .26124 .27876 .30955 .35074 .37812 .39633 .00334	CA-C .01017 .01123 .01545 .01560 .01500 .01391 .01294	CLM-C .04692 .04074 .30757 05766 12285 175591 17558 00541	CY-C 00245 00463 00679 00806 00861 00861	CBL-C .00055 .00032 00003 00018 00056 00077 00009	CYN-C 00129 .00009 .70132 .60187 .00272 .00309 .00304	CL-C .25010 .25710 .27431 .30474 .34572 .37308 .39127 .00327	CD-C .03988 .C4169 .C4553 .05063 .054769 .05656 .05760	CSL-C .00046 .00028 .00005 00033 00045 00050 00005	CLN-C 00135 .00085 .00131 .00187 .00275 .00314 .00310 .00035
		CA20	747/1	02 S1		CARRIER DATA		(56N) 3	1) ( 26 ND	V 75 )
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 SQ.FT LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300		= .00	OD IN.XC IN.YC IN.ZC				ALPHAC = ELEVON = BETAO = DX =	4.000 5.000 5.000 20.000	BETAC = ELV-0B = MACH = PH1 = DY =	.000 3.000 .000 .000
		RN/L =	3.29	GRADIENT INT	ERVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000	CN-C .35001 .35315 .35325 .37707 .39859 .41237	CA-C .01271 .01374 .01438 .01448 .01350 .01268	CLM-C 11012 11243 13003 15427 18116 19357	00719 00840 00885 01035 00933	CBL-C .00011 00009 00036 00103 00093		CL-C .34523 .34625 .35623 .37195 .39345 .40725	.05830 .05830 .05832	CSL-C .00015 .00002 00017 00040 00063 00063	CLN-C .00082 .00150 .00234 .00269 .00378 .00376 .00276

DA\*E 26 NOV 75

TABULATED SOURCE DATA - CA20

----

PAGE 1005

	00											
				CA20	747/1	02 St :	(	CARRIER DATA		(5GN13	1) (28 NO)	v 75 )
		REFEREN	CE DATA							PARAMETRIC	DATA	
OR: OF	SREF = LREF = BREF = SCALE =	5500.0000 SQ 327.7800 IN 2348.0400 IN .0300	YMRP	= .00	00 IN.XC 00 IN.YC 00 IN.ZC				ALFHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 .000 5.000 .000 20.000	BETAC = ELV-OB = MACH = PHI = DY =	.009 3.000 .000 .000
F. C.				RN/L =	3.30	GRADIENT INT	ERVAL ≖	.00/ 12.00				
ORIGINAL PAGE AS	ALPHAO	* 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .28590 .29156 .30601 .32918 .36346 .38539 .40057	CA-C .00726 .00897 .01131 .01329 .01322 .01303 .01251	CLM-C .03557 .03037 00069 05643 12009 15370 17332 00500	CY-C 00538 00512 00721 00946 00955 00978 00024	CBL-C 00026 .00006 00015 00047 00091 00099 00099	CYN-C 00003 .00072 .00169 .00267 .00348 .00346 .00346	CL-C .28204 .28749 .30162 .32445 .35856 .39039 .39554 .00265	CD-C .04031 .04261 .04645 .05064 .0545 .05645 .05752 .00082	CSL-C .00021 .00003 00024 00028 00058 00069 00003	CLN-C 00006 .00070 .00169 .00270 .00349 .00342 .00353 .00023
				CA20	747/1	02 SI		CARRIER DATA	•	(50013	(S) (S8 NO	V 75 )
		REFEREN	CE DATA							PARAMETRIC	DATA	
	SPEF = LREF = BREF = SCALE =	2348.0400 1:	. YMRP	= .00	00 IN.XC 000 IN.YC 000 IN.ZC				ALPHAC = ELV-18 = ELEVON = BETAO = DX =	8.000 .000 5.000 .000	EETAC = ELV-08 = MACH = PH1 = DY =	.000 3.000 .000 .000
				RN/L =	3.29	GRADIENT IN	TERVAL =	.00/ 12.00				
	ALFHA0	= 10.000 DZ :000 3.000 7.500	CN-C .75079 .75587 .76349 .77390 .79099	CA-C 02853 02941 03038 03156 03305	CLM-C 27188 27163 27119	01027 01103	CBL-C 00035 00049 00062 00076	CYN-C .00100 .00178 .00259 .00334	CL-C .74270 .74766 .75553 .76598	CD-C .10423 .16424 .10461 .10525	CSL-C 00027 00028 00026 00027	CLN-C .00107 .00187 .00269 .00345

•

PAGE 1005

DATE &S NOV 75	IABULA	IZP SOURCE (	JAIA - CE	/50					PAU	
		CA28	747/1	02 SI	•	CARRIER DATA		(5GN13	2) (26 1/0/	/ 75 )
REFERENCE	DATA							PARAMETRIC	DATA	
SREF = 5500.0000 FQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	YMRP	= .009	OO IN.XC OO IN.YC OO IN.ZC				= DAHPLA = B!-VJ3 = CAT3B CAT3B	8.000 .008 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 .000
		RN/L =	3.28	GRADIENT INT	RVAL =	.00/ 12.00				
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .66518 .67568 .69573 .71974 .75498 .77750 .79335	CA-C0295102941030450317803361034250337100013	CLM-C 15665 16495 19111 21628 23801 24550 24737 00469	CY-C 01001 01017 01052 01136 01189 01154 01045 00007	CEL-C .00005 00015 00030 00067 00124 00133 00143 00005	CYN-C .00088 .00153 .00220 .00306 .00392 .00372 .00334 .00017	CL-C .65856 .65888 .69881 .71268 .74771 .76989 .78552 .00406	CD-C .08939 .09032 .09278 .09563 .09965 .10323 .10652 .00058	CSL-C .00010 .00001 00001 00024 00077 00093 00001	CLN-C .00089 .00159 .00284 .00315 .00410 .00392 .00357
								4561147	3) (26 %)	1/ 55 1
		CA20	747/1	02 SI		CARRIER DATA	1	(5GN13	33) (25 1/0	¥ 13 ,
REFERENCE	DATA	CA50	747/1	02 SI		CARRIER DATA		PARAMETRIC		V 13 )
REFERENCE SREF = 5500.0000 SQ.F LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	T. XMRP	= 1339.90 = .00	747/1 00 IN.XC 00 IN.YC 00 IN.ZC	·		CARRIER DATA	ALPHAC = ELV-IB = ELEVON = BETAO = DX			.000 3.000 .600 .000
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. EREF = 2348.0400 IN.	T. XMRP YMRP	= 1339.90 = .00	00 IN.XC	·		.00/ 12.00	ALPHAC = ELV-18 = ELEVON = BETAO =	PARAMETRIO 8.000 .000 5.000	EETAC = ELV-08 # MACH # PHI =	.000 3.000 .500 .000

\_\_\_\_

----

PAGE 1007 TABULATED SOURCE DATA - CA20 **DATE 26 NOV 75** (5GN133) ( 26 NOV 75 ) CARRIER DATA CA20 747/1 02 S1 PARAMETRIC DATA REFERENCE DATA B.000 BETAC = ALPHAC = XMRP = 1339.9000 IN.XC SREF \* 5500.0000 SQ.FT. ELV-OB = 3.000 .000 ELV-IB = YMRP = .0000 IN.YC LREF = 327.7800 IN. .600 ELEVON = 5.000 MACH = ZMRP = 190.8000 IN.ZC BREF = 2348.0400 IN. .000 .000 PHI EETAO = SCALE = .0300 .000 10.000 DY RN/L = 3.30 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 14.000 CSL-C CLN-C CL-C .69349 CYN-C CBL-C CN-C .70026 CY-C CLM-C DZ CA-C .00105 .00001 .09230 -.00007 .00103 -.00897 -.03173 -.14785 .000 .00171 -.00004 .70000 .09398 -.00023 .00155 -.00929 .70775 -.03135 -.15678 3.000 .00247 -.00014 .00240 .71330 .09566 -.00046 -.01005 -.03186 -.17942 7.500 .72035 .00335 .09772 -.00030 .00324 .73027 -.00077 -.20372 -.01146 .73743 -.03278 15.000 -.00075 .00446 .10162 .00426 .75709 -.00141 -.03360 -.22866 -.01275 30.000 .76451 .00406 .10469 -.00081 .00385 .77476 -.00140 -.23577 -.01196 -,03365 45.000 .78244 .00402 .10723 -.00080 .78703 -.00138 .003B1 -.01162 -.23957 -.03327 G0.000 .79497 -.00002 .00019 .00044 .00265 -.00005 .00018 -.00427 -.00015 .00269 -.00002 GRADIENT (5GN134) ( 26 NOV 75 ) CARRIER DATA CA20 747/1 12 S0 PARAMETRIC DATA REFERENCE DATA HETAC = 8.000 ALPHAC = XMRP = 1339,9000 IN.XC SREF = 5500.0000 SQ.FT. ELV-OB = 3.000 .000 ELV-IB \* YMRP .0000 IN.YC = LREF = 327.7800 IN. .600 MACH = 5.000 ELEVON = ZMRP 150.8000 IN.ZC BREF = 2348.0400 IN. .000 PHI BETAC = .000 SCALE = .0300 20.000 DY .000 RN/L = 3.27 GRADIENT INTERVAL = .00/ 12.00 ALPHAO = 10.000CSL-C CLN-C CL-C CYN-C CY-C CBL-C CLM-C CN-C CA-C DZ -.00033 .00201 .10601 .77313 .00191 -.00056 .000 .78107 -.03206 -.28803 -,01017 .00279 -.00048 .10654 .77408 -.00085 .00266 .78210 -.03170 -.2793B -.01118 3.000 .00354 -.00069 .77842 .10682 -.00118 .00336 -.01253 .78642 -.03218 -.27675 7.500 .00436 -.00116 .10777 .78716 -.01360 -.00180 .00408 -.27565 15.000 .79519 -.03276 .00436 -.00079 .11085 .00415 .79601 -.00143 . 523 .81033 -.26147 -.01316 30.000 -.03141 .00372 .00060 11293 .00376 .80162 -.01222 .00005 -.03019 -.25183 45.000 .00383

.00106

-.00005

.00020

.81027

.00073

.00395

.00019

.00049

-.00008

-.01105

-.00031

-.24785

.80143

.81922

.00073

60.000

GRADIENT

-.02959

-.00002

.11506

DATE SO ME	W 75	TABULA	ED SCONCE D	IATA - CF	120						
			CA20	747/1	02 51	1	CARRIER DATA		(SGN13	4) ( 28 NO	V 75 )
	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	5500.0000 SQ.FT 327.7800 IN. 2348.0400 IN. .0300	YMRP		IN.XC				ALPHAC = ELV-1B = ELEVON = BETAO = EX	9.000 5.000 5.000 20.000	BETAC = ELV-CB = MACH = PHI = DY =	.000 3.000 .600 .000
			RN/L =	3.29	GRADIENT IN	TERVAL =	.00/ 12.00				
ALPHAO =	.000 3.000 7.500 15.000 30.000 45.000	CN-C .72308 .72761 .73745 .75102 .77105 .76708 .79655 .00194	CA-C 03331 03223 03189 03259 03274 03261 03284 .00018	CLM-C 15764 16056 17680 19992 21999 22572 23167 00264	CY-C 01027 01155 01308 01411 01495 01278 01257 00037	CBL-C 00040 00078 00152 00152 00187 00153 00008	CYN-C .00172 .00264 .00372 .00432 .00465 .00404 .00422	CL-C .71624 .72051 .73014 .74362 .76339 .77914 .78851 .00168	CD-C .09470 .09558 .09860 .10027 .10360 .10651 .10793 .00051	CSL-C 00020 00048 00048 00065 00110 00093 00067 00004	CLN-C .00179 .00276 .00387 .00454 .00512 .00428 .00441
			CAZO	747/1	02 51		CARRIER DATA	,	(5GN13	(25 NC	DV 75 )
•	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	5500.C000 SQ.FT 327.7800 IN. 2348.6400 IN. .0300		a .000	OR IN.XC OR IN.YC OR IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = ELV-03 = MACH = PHI = DY =	-5.000 3.000 .600 10.000
		RUN ND.	0/0	RN/L =	3.27 GR	ADIENT INTE	RVAL = .0	10/ 12.00			
ALPHAO 18.008 10.000 10.000 10.008 10.008 10.008	0Z .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .31108 .32070 .33357 .35168 .37719 .39572 .41409 .00299	CA-C .01273 .01293 .01298 .01241 .01075 .00864 .00562 .00002	CLM-C 17939 18107 18622 19048 19294 20101 20832 00093	CY-C .06740 .06697 .06445 .05349 .06339 .07186 00040	CBL-C .02323 .02232 .02074 .01808 .01404 .01373 .01324	CYN-C 01953 01850 01647 01236 00723 01139 01487	CL-C .30548 .31603 .32833 .34689 .37244 .39109 .40958 .00297	CD-C .04808 .04928 .05058 .05201 .05302 .05268 .05268	CSL-C .02091 .02011 .01874 .01653 .01305 .01231 .01145 00029	CLN-C 02197 02085 01469 01469 01269 01629 .00044

\_\_\_\_\_

DATE 26 NOV 75	TABULATED SOURCE	DATA - CA20				PAG	E 1009
52 25 Nov 15	CSAC	747/1 02 S1	(	CARRIER DATA	(56N136	61 ( 26 NO	v 75 1
REFERENCE I					PARAMETRIC	DATA	
SREF = 5500.0000 SQ.FT LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .030J	. XMRP = 1339.90 YMRP = .00	00 IN.XC 00 IN.YC 00 IN.ZC		ALPHAC = ELV-IB = FLEVON = BETAO = DX =	4.000 .000 5.000 .000 10.000	BETAC = ELV-OB = MACH = PHI = DY =	-5.000 3.000 .600 .000 10.000
	RUN NO. 0/0	RN/L = 3.26	GRADIENT INTER	00.51 \00. a JAVR			
	CN-C CA-C	CLM-C CY 18375 .0 18487 .0 18623 .0 19142 .0 19546 .0 20302 .0		CYN-C CL-C02132 .3353902055 .3412901828 .3505201372 .3645700859 .3845701180 .4001401783 .41458 .00041 .00202	CD-C .04668 .04782 .04913 .05060 .05265 .05203 .05134 .00032	CSL-C .01946 .01909 .01824 .01614 .01230 .01254 00016	CLN-C 02362 02280 02043 01562 01013 01329 01938 .00043
	CA20	747/1 02 51		CARRIER DATA	(5GN13	( 26 N	OV 75 )
REFERENCE					PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F1 LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300	r. XMRP = 1339.9 YMRP = 10	000 IN.XC 000 IN.YC 000 IN.ZC		ALPHAC = ELV-1B = ELEVON = BETAO = DX =	.000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 .000
	RUN NO. 0/0	RN/L = 3.35	GRADIENT INTE	RVAL = .00/ 12.00			
ALPHAO DZ 10.000 .000 10.000 3.000 10.000 7.500 10.000 15.000 16.000 30.000	CN-C CA-C .29303 .01901 .30391 .01903 .31953 .01842 .34138 .01729	101561 112621 129731	7-C CBL-C 11780 .00935 11739 .00763 11925 .00579 12209 .00337 12609 .0006	CYN-C CL-C 00499 .28791 00266 .29872 .00041 .31432 .00430 .33617 .00927 .36546	.05390 .05493 .05609	CSL-C .00873 .00726 .00575 .00375 .00098	CLN-C 00595 00345 00021 .00392 .00921

			CA20 747/	02 51	CARRIER	DATA	(5GN13E	3) ( 28 NO	v 75 )
	REFERENCE	ΠΑΤΑ	•				PARAMETRIC	DATA	
LREF -	5500.0000 \$0.F1 327.7800 IN. 2348.0400 IN. .0300		= 1339.9000 IN. = .0000 IN. = 190.8000 IN.	/C		ALPHAC = ELV-18 = ELEVON = ETAO = OX	4.000 .000 5.000 .000 10.000	BETAC = ELV-OB = MACH = PHI = DY =	.000 3.000 .600 .000
		RUN NO.	0/ 0 RN/L	• 3.29 GI	RADIENT INTERVAL =	.00/ 12.00			
ALPHA0 16.000 10.000 10.000 10.000 10.000 10.000	DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .32298 .33005 .34135 .39744 .38238 .39993 .41619 .00246	CA-C CLM0149811 .01542115 .0153413 .0149315 .0128418 .0114520 .01038210	01282 1401310 2901598 0901971 0102430 3901933	CBL-C CYN00778003 .00639003 .00478004 .00294 .0030008 .0040008 .00400043 .00300040 .003	529 .31009 527 .32509 028 .33634 050 .35239 057 .37741 0577 .39500 0573 .41129	CD-C .05187 .05305 .05415 .05595 .05595 .05640 .05704 .00030	CSL-C .00713 .00598 .00467 .00324 .00076 .00001 00020	CLN-C 00808 00393 00078 .00316 .00853 .00890 .00275
			CA20 747	1 02 51	CARRIER	DATA	(5GN13	9) (26 NC	IV 75 I
	REFERENCE	DATA					PARAMETRIC	DATA	
LREF =	5500.0000 SQ.F 327.7800 IN. 2348.0400 IN. .0300		= 1339.9000 IN = .0000 IN = 190.8000 IN	YC		ALPHAC = ELV-18 = ELEVON = BETAO = OX =	.000 5.000 .000	BETAC = ELV-03 = MACH = PHI = DY =	5.000 3.000 .600 .000
		RUN NO.	0/ 0 RN/L	= 3.25 G	RADIENT INTERVAL =	.00/ 12.00			
ALPHAC 10.000 10.000 10.000	DZ .000 3.000	CN-C .30728 .31940 .33564	CA-C CLM .0128808 .0124408 .0113411	5409841	00555 .01	-C CL-C 592 .30271 088 .31481 653 .33108	.04853	CSL-C 00242 00418 00604	CLN-C .00640 .01157 .01755 .02246

TABULATED SOURCE DATA - CA20

(5GN14D) ( 26 NOV 75 ) CARRIER DATA CA20 747/1 02 51 PARAMETRIC DATA REFERENCE DATA 5.000 4,000 BETAC = ALPHAC = XMRP = 1339.9000 IN.XCSREF = 5500.0000 SQ.FT. ELV-OB = 3.000 .000 ELV-IB = YMRP = .0000 IN.YC LREF = 327.7800 IN. .600 MACH = ELEVON = 5.000 ZMRP = 190.8000 IN.ZC BREF = 2340.0400 IN. PHI .000 BETAO = .000 .0390 SCALE = 10.000 10.000 DY GRADIENT INTERVAL = .00/ 12.00 RUN NO. RN/L = 3.26 0/ 0 CSL-C CLN-C CD-C CYN-C CL-C CLM-C -.07534 CY-C CBL-C CN-C CA-C ALPHAO -.00377 .00553 .33164 .04816 -.08980 -.00452 .00491 .01031 .000 .33610 10.000 .01016 .33867 -.00511 .04895 .00938 -.09257 -.00633 .34318 .01037 -.09118 3.000 10.000 .01661 34974 -.00677 .04927 .01562 -.00866 -.11739 -.09926 7.500 .35422 .00952 10.000 .02167 -.00825 .04988 .36693 -.01065 .02050 -.15215 -.10402 .00833 10.000 15.000 .37138 .02599 .05006 -.01042 -.10673 .02457 .39203 -.01326 .00588 -.19183 10.000 30.000 .39536 .02508 .05048 -.01103 .02360 .40827 -.20393 -.20948 -.01377 -.10253 .41255 .00461 10.000 45.000 .02268 -.01139 .42260 -.01379 -.09664 60.000 .42697 .00370 10.000 .00147 .00014 -.00040 .00242 .00142 -.00562 -.00128 -.00055 -.00011 GRADIENT .00242 (5GN141) ( 26 NOV 75 ) CARRIER DATA CAZD 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA .000 ALPHAC = 4.000 BETAC = SREF \* 5500.0000 SQ.FT. XMRP = 1339.9000 IN.XC ELV-08 = 13.000 ELV-18 = 10.000 YMRP . .0000 IN.YC 327,7800 IN. .600 ELEVON = 5.000 MACH # ZMRP = 190.8000 IN.ZC BREF = 2348.0400 IN. .000 .000 BETAC = PHI .0300 SCALE = .000 DY DX .000 RN/L = 3.25 GRADIENT INTERVAL = .00/ 12.00 ALPHA0 = 10.000 CLN-C CSL-C CD-C CYN-C CL-C CY-C CBL-C CA+C CLM-C CN-C .00141 .34426 .05986 -.00031 .00138 -.00821 -.00040 .02152 -.27845 .000 .34966 -.00041 .00168 J6038 .00164 .35121 -.00052 -.28259 -.00820 .35661 .02135 3.000 .00218 .06131 -.00041 .36407 -.00058 .00214 .02104 -.30594 -.00842 7.500 .36950 .00255 -.00043 .06254 .00251 .38431 -.00865 -.00064 .02026 -.33268 15.000 .38975 .00292 -.00072 .06348 .41271 .00284 -.00909 -.00097 .01842 -.36814 30.000 .41809 -.00080 .00310 .06325 .00302 .43172 -.38456 -.00911 -.00106 .43697 .01533 45.000 -.00095 .0033B .06322 .45245 -.00932 -.00125 .00328 -.40503 60.000 .45758 .01428

-.00003

-.00379

-.00086

.00265

GRADIENT

-.00002

**PAGE 1011** 

.00010

-.00001

.00019

.00010

TABULATED SOURCE DATA - CARD

DATE 28 NOV 75	INDULMI	ED 300,102 0.		- <del>-</del>					( 26 NO)	75 )
		CARO	747/1	01 S1	C	ARRIER DATA		(5GN141		, ,,, ,
	5474	•					!	PARAMETRIC	DATA	
REFERENCE !  SREF = 5500.0000 SQ.FT  LREF = 327.7800 IN.  BREF = 2348.0400 IN.  SCALE = .0300	. XMRP YMRP	= 1339.900 = .000 = 190.800	D IN.YC				ALFHAC = ELV-18 = ELEVON = BETAO = DX =	4.000 10.000 5.000 .000	BETAC = ELV-09 = MACH = PHI = DY =	.000 13.000 .600 .000
		RN/L =	3.20	GRADIENT INTE	ERVAL =	.00/ 12.00				
.000 3.000 7.500	CN-C .26254 .27600 .29132 .32688 .37255 .40335 .45431	CA-C .01841 .01858 .02046 .02183 .02032 .01826 .01621	CLM-C 14952 15466 19250 31638 35085 35085 00593	CY-C 00702 00844 00892 00777 00950 00959 00978 00923	CBL-C .00020 00026 00048 00105 00107 00109 00009	CYN-C .00051 .00159 .00208 .00181 .00317 .00310 .00313	CL-C .25787 .26528 .28631 .32156 .36719 .38906 .42908 .00386	CD-C .04808 .04900 .05300 .05790 .06089 .06186 .05285 .00067	CSL-C 00020 00015 00032 00032 00079 00080 00082 00007	CLN-C .00048 .00160 .00211 .00164 .00316 .00319 .00321
		05AD	747/1	Q1 S1		CARRIER DATA	•	(56N14	5) (58 M	V 75 )
								PARAMETRIC	DATA	
REFERENCE SREF = 5500.0000 SQ.F' LREF = 327.7800 IN. BREF = 2348.0400 IN. SCALE = .0300		= .00	DO IN.XC DO IN.YC DO IN.ZC				ALPHAC = ELV-1B = ELEVON = BETAO = DX =	4.000 -10.000 5.000 .000	BETAC = ELV-OB = MACH = PHI = DY =	.000 -7.000 .600 .000
		RN/L =	3.27	GRADIENT INT	FERVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000	CN-C .22928 .23756 .25222 .27066 .29690 .31447 .32408	CA-C .01933 .01925 .01891 .01911 .01710 .01561	CLM-C .21024 .20195 .18526 .18526 .14092 .13160		CBL-C 00050 00066 00094 00128 00109 00109	CYN-C .00227 .00263 .00300 .00335 .00372 .00380	CL-C .22467 .23292 .24755 .26588 .29221 .30984 .32954	CD-C .04558 .04643 .04755 .04958 .05028 .05048 .05066	CSL-C 08032 08044 00059 00055 00054 00075 00070	CLN-C .00230 .00268 .00307 .00342 .00382 .00388 .00409

TABULATED SCURCE DATA - CARD

DATE 26 NOV 75	TABULAT	ED SCURCE DA	ATA - CAE	20				(Felling	2) ( 26 ND	v 75 )
<b></b>		CA20	747/1	01 51	C	ARRIER DATA		(5GN142	<del>-</del> '	• 15 .
								PARAMETRIC	DATA	
REFE	RENCE DATA						ALPHAC =	4.000	BETAC =	.000
SREF = 5500.0000	3 204 11 1 11 11 11 11	= 1339.9000 = .0000	O IN.XC				ELV-IB =	-10.000 5.000	ELV-OB =	-7.000 .600
LREF = 327.7800 BREF = 2348.0400			O IN.ZC				ELEVON = BETAO =	.000	PHI =	.000
SCALE = .0300	j						DX =	.000	DA =	.000
		<b>-</b>	3.23	GRADIENT INTE	RVAL =	.00/ 12.00				
		RN/L =	3.63	GRADIEM: IIII						01 11 0
ALPHA0 = 14.000	CN-C	CA-C	CLM-C	CY-C	CBL-C	CYN-C	CL-C .14833	CD-C .03416	CSL-C .00006	CLN-C .00134
DZ .0:	. 15219	.01556	.30348	00900 00906	00003 00030	.00135 .00230	. 15859	.03561	00011 00040	.00231 .00321
3.0 7.5	00 .1625 <b>3</b> 00 .17862	.01596	.28401 .26364	01111	00068	.00317 .00298	. 17446 . 20582	.03851 .04363	00045	.00303
15.0	00 .21032	.01919	.22448	01016 01125	00071 00108	.00392	.24918	.04732	00073 00087	.00400 .00401
30.0 45.0	00 .25381 00 .28207	.01853 .01722	.15908	01107	00122	.00392 .00376	.27743 .30562	.04884 .05035	00101	.00387
60.0	00 .31026	.01592	.13653	01068 00028	00135 00009	.00024	.00349	.00059	00005	.00025
GRADIE	NT .00353	.00023	00355							
0										·
<b></b>		CAZO	747/1	01 SI	(	CARRIER DATA	•	(56N14	13) ( 26 N	ov 75 )
		CASO	747/1	01 SI	(	CARRIER DATA		(5GN14	_	ov 75 )
	ERENCE DATA			01 SI	•	CARRIER DATA			DATA BETAC *	.000
REF SREF = 5500.000	ERENCE DATA	= 1339.90(	88 IN.XC		(	CARRIER DATA	ALPHAC ≃ RUD-U ⇒	PARAMETRIC 4.000 15.000	DATA  BETAC * RUD-L *	.000 15.000
REF SREF = 5500.000 LREF = 327.780	ERENCE DATA 10 SQ.FT. XMRP 10 IN. YMRP	= 1339.900 = 000			(	CARRIER DATA	ALPHAC = RUD-U = ELEVON =	PARAMETRIC 4.000 15.000 5.000	DATA  BETAC * RUD-L * AILRON * PHI *	.090 15.000 .000
REF SREF = 5500.000	ERENCE DATA  10 SQ.FT. XMRP 10 IN. YMRP 10 IN. ZMRP	= 1339.900 = 000	00 IN.XC		(	CARRIER DATA	ALPHAC ≃ RUD-U ⇒	PARAMETRIO 4.000 15.000 5.000	DATA  BETAC * RUD-L * AILRON *	.000 15.000 .000
REF SREF = 5500.000 LREF = 327.780 BREF = 2348.040	ERENCE DATA  10 SQ.FT. XMRP 10 IN. YMRP 10 IN. ZMRP	= 1339.900 = .000 = 190.800	00 IN.XC 00 IN.YC 00 IN.ZC			CARRIER DATA	ALPHAC = RUD-U = ELEVON = BETAO =	PARAMETRIC 4.000 15.000 5.000	DATA  BETAC * RUD-L * AILRON * PHI *	.090 15.000 .000
REF SREF = 5500.000 LREF = 327.780 BREF = 2348.040	ERENCE DATA  10 SQ.FT. XMRP 10 IN. YMRP 10 IN. ZMRP	= 1339.900 = 000	00 IN.XC				ALPHAC = RUD-U = ELEVON = BETAO =	PARAMETRIC 4.000 15.000 5.000	DATA  BETAC * RUD-L = AILRON = PHI = DY =	.000 15.000 .000 .000
REF = 5500,000 LREF = 327.780 BREF = 2348.040 SCALE = .030	ERENCE DATA  10 SQ.FT. XMRP 10 IN. YMRP 10 IN. ZMRP 10	= 1339.900 = .000 = 190.800 RN/L =	00 IN.XC 00 IN.YC 00 IN.ZC	GRADIENT INT	ERVAL = CBL-C	.00/ 12.00 CYN-C	ALPHAC = RUD-U = ELEVON = BETAO = DX =	9.000 15.000 5.000 .000 .000	DATA  BETAC ** RUD-L ** AILRON ** PHI ** DY **  CSL-C	.000 15.000 .000 .000 .000
REF = 5500.000 LREF = 327.760 BREF = 2348.040 SCALE = .030	ERENCE DATA  10 SQ.FT. XMRP 10 IN. YMRP 10 IN. ZMRP 10 EN-C	= 1339.900 = .000 = 190.800	00 IN.XC 00 IN.YC 00 IN.ZC 3.27	GRADIENT INT CY-C .03165	CBL-C .00413	.00/ 12.00 CYN-C 02115	ALPHAC = RUD-U = ELEVON = BETAO = DX = CL-C .29971	9.000 15.000 5.000 .000 .000 .000	DATA  BETAC * RUD-L * AILRON * PHI * DY *  CSL-C .00191 .00194	.000 15.000 .000 .000 .000
REF = 5500.000 LREF = 327.780 BREF = 2348.040 SCALE = .030 ALPHAO = 10.000 DZ	ERENCE DATA  10 SQ.FT. XMRP 10 IN. YMRP 10 IN. ZMRP 10 10 10 10 10 10 10 10 10 10 10 10 10	= 1339.900 = .000 = 190.800 RN/L = CA-C .02179 .02191	00 IN.XC 00 IN.YC 00 IN.ZC 3.27 CLM-C 09665	GRADIENT INT CY-C .03165 .03404	CBL-C .00413 .00423 .00432	.00/ 12.00 CYN-C 0215 02191 08286	ALPHAC = RUD-U = ELEVON = BETAO = DX = CL-C .29971 .30679 .32281	PARAMETRIC 4.000 15.000 5.000 .000 .000 .000 .000 .000	DATA  BETAC * RUD-L * AILRON * PHI * DY *  CSL-C .00191 .00194 .00193	.000 15.000 .000 .000 .000 .000
REF = 5500.000 LREF = 327.780 BREF = 2348.040 SCALE = .030 ALPHAO = 10.000 DZ 	ERENCE DATA  10 SQ.FT. XMRP 10 IN. YMRP 10 IN. ZMRP 10 CN-C 10 CN-C 10 CN-C 10 30490 10 31203 10 32811	= 1339.900 = .001 = 190.800 RN/L = CA-C .02179 .02191 .02188 .02149	00 IN.XC 00 IN.YC 00 IN.ZC 3.27 CLM-C 09020 09665 12426	GRADIENT INT  CY-C  .03165  .03404  .03623	CBL-C .00413 .00423 .00432 .00420	.00/ 12.00 CYN-C 02115 0215 02315	ALPHAC = RUD-U = ELEVON = BETAO = DX = CL-C .29971 .30679 .32281 .34282 .37119	PARAMETRIC 4.000 15.000 5.000 .000 .000 .000 .000 .0559 .0559 .0595 .0595	DATA  BETAC ** RUD-L ** AILRON ** PHI ** DY **  CSL-C .00191 .00194 .00193 .00178	.000 15.000 .000 .000 .000 .000 .000 .02147 02324 02346 02367
REF = 5500.000 LREF = 327.760 BREF = 2348.040 SCALE = .030 ALPHAO = 10.000 DZ 3. 7. 15. 30.	ERENCE DATA  10 SQ.FT. XMRP 10 IN. YMRP 10 IN. ZMRP 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10	= 1339.900 = .000 = 190.800 RN/L = CA-C .02179 .02191 .02189 .02149 .01962	00 IN.XC 00 IN.YC 00 IN.ZC 3.27 CLM-C 09020 12428 14726 17449	CY-C .03165 .03404 .03623 .03709	CBL-C .00413 .00423 .00420 .00420 .00399 .00420	.00.12.00 CYN-C 02115 02191 02366 02358 02358	ALPHAC = RUD-U = ELEVON = BETAO = DX = CL-C .29971 .30679 .3281 .34282 .37119 .38878	PARAMETRIC 4.000 15.000 5.000 .000 .000 .000 .000 .05559 .05541 .05795 .05955 .05055	DATA  BETAC * RUD-L = AILRON = PHI = DY =  CSL-C .00191 .00194 .00193 .00193 .00171	.000 15.000 .000 .000 .000 .000 CLN-C 02147 02346 02367 02429 02429
REF = 5500.000 LREF = 327.760 BREF = 2348.046 SCALE = .030 ALPHAO = 10.000 DZ 	ERENCE DATA  18 SQ.FT. XMRP 10 IN. YMRP 10 IN. ZMRP 10 IN. ZMRP 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-C 10 CN-	= 1339.900 = .001 = 190.800 RN/L = CA-C .02179 .02191 .02188 .02149	00 IN.XC 00 IN.YC 00 IN.ZC 3.27 CLM-C 09020 09665 12426	CY-C 	CBL-C .00413 .00423 .00423 .00420 .00399	.00. 12.00 CYN-C 02115 02315 02315 02338	ALPHAC = RUD-U = ELEVON = BETAO = DX = CL-C .29971 .30679 .32281 .34282 .37119	PARAMETRIC 4.000 15.000 5.000 .000 .000 .000 .05559 .05541 .05795 .05955 .05955	DATA  BETAC * RUD-L = AILRON = PHI = DY =  CSL-C .00191 .00194 .00193 .00178	.000 15.000 .000 .000 .000 .000 .000 .00

		CV50	747/1	01 \$1	C	ARRIER DATA		(5GN14)	3) ( 26 NO	OV 75 1
REFERE	NCE DATA							PARAMETRIC	DATA	
SREF = 5500.0000 St LREF = 327.7800 II BREF = 2348.0400 II SCALE = .0300	N. YMRP	= .000	OO IN.XC				ALPHAC = RUD-U = ELEVON = BETAO = DX =	4.000 15.000 5.000 .000	BETAC = RUD-L = AILRON = PHI = DY =	.000 15.000 .000 .000
		RN/L =	3.23	GRADIENT INTE	RVAL #	.00.11.00				
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 20.000 45.000 60.000 GRADIENT	CN-C .22102 .23055 .24979 .26421 .33046 .36019 .39002 .00377	CA-C .01932 .01983 .02104 .02667 .02175 .02008 .01642 .00023	CLM-C .01959 .00830 01941 07135 12747 15700 18691 00528	CY-C .03478 .03557 .03583 .03984 .03973 .03909 .03963	CBL-C .00509 .00491 .00481 .00497 .00434 .00436 .00440	CYN-C 02300 02392 02298 02468 02392 02395 02417	CL-C .2!727 .22591 .24493 .27903 .32517 .35493 .38480 .00373	CD-C .04488 .04623 .04933 .05439 .05932 .06060 .00060	CSL-C .00256 .00250 .00240 .00238 .00185 .00185 .00189	CLN-C 02341 02331 02366 02507 02415 02450 .00002
		CA20	747/1	02 S1	c	CARRIER DATA		(5GN14	4) (26 N	OV 75 1
REFERE	NCE DATA	CAEO	747/1	02 51	C	CARRIER DATA		(SGN14		OV 75 I
REFEREI SREF = 5500.0000 S LREF = 327.7800 H BREF = 2348.0400 H SCALE = .0300	Q.FT. XMRP N. YMRP	* 1339.900 * .000	747/1 99 IN.XC 90 IN.YC 90 IN.ZC	02 S1	c	CARRIER DATA	ALPHAC = RUD-U = ELEVON = ETAO = DX =			.000 15.000 .000 .000
SREF = 5500.0000 S LREF = 327.7800 H BREF = 2348.0400 H	Q.FT. XMRP N. YMRP	* 1339.900 * .000	00 IN.XC	02 SI GRADIENT INT			ALPHAC = RUD-U = ELEVON = BETAO =	PARAMETRIC 4.000 15.000 5.000	BETAC = RUD-L = AILRON = PHI =	.008 15.008 .000

GRADIENT

.00405

r\_ . . . . .

PAGE 1015 TABULATED SOURCE DATA - CA20 DATE 26 NOV 75 (5GN145) ( 25 NOV 75 ) CARRIER DATA CA20 747/1 01 S1 PARAMETRIC DATA REFERENCE DATA .000 BETAC -4.000 ALPHAC = 5500.0000 SQ.FT. 327.7800 IN. # 1339.9000 IN.XC XMRP 3.000 ELV-OB = .000 ELV-IB = YMRP = LREF .000 MACH .600 ELEVON = 190.8000 IN.ZC BREF = 2348.0400 IN. .000 PHI .000 BETAO = .0300 SCALE = .000 DY .000 3.37 GRADIENT INTERVAL = .00/ 12.00 RN/L = ALPHAO = 10.000 CLN-C .00133 CSL-C CL-C CD-C CYN-C CBL-C CA-C CLM-C CY-C CN-C DZ .32179 .05752 .00002 -.00006 .00134 -.17010 -.17315 .32707 .02143 -.00719 .000 -.00010 .00163 .05781 .32844 -.00021 .00163 -.00734 .33371 .02107 3.000 -.00029 .00219 .34079 .00217 .34604 .36502 .38797 .40430 .42180 -.18602 -.00812 -.00046 .02038 7.500 .05854 -.00046 .00297 .00292 .35985 -.20082 -.00860 -.00071 .01869 15.000 -.00073 .00319 .05845 .39294 -.00899 -.00100 .00311 -.21411 .01633 30.000 .00307 .05799 -.00083 eesoo. sesoo. .39940 -.00109 -.21831 -.00873.01424 45.000 .00302 -.00099 .05765 .41703 -.00124 .01215 -.22429 .-.00859 50.000 .00012 -.00004 .00255 .00011 .00011 -.00005 -.00913 .00255 -.00014 -.00218 GRADIENT .00/ 12.00 3.36 GRADIENT INTERVAL = RN/L = ALPHAO = 14.000 CLN-C CSL-C CL-C .23753 CD-C CYN-C CBT-C CLM-C CY-C CA-C DZ CN-C .00099 .04615 .00010 .00005 .00101 -.05169 -.05116 -.00729 .24212 .01951 -.00009 .00173 .04754 .24578 .25046 .27202 .30360 -.00802 -.00021 .00172 .01907 .02055 3.000 .00187 -.00021 .05117 .00185 .26708 -.00779 -.00035 -.08461 7.500 -.00032 .00214 .29854 .05418 .00211 -.00049 .02042 -.12762 -.00782 15.000 .00327 05639 -.00070 .00320 .34138 -.00924 -.00098 .34643 .01837 -.16994 30.000 .00310 .36791 .05683 -.00054 -.00090 45.000 .01618 -.19071 -.00880 .37287 .00291 .05726 -.00058 .39444 -.00082 -.21153 -.00836 .39929 .01398 60.000 -.00004 .00011 .00011 .00400 .00059 -.00006 -.00005

-.00463

PAGE 1016

		CA20 747/	O1 S1		CARRIER DATA		(56N14	(68 10)	75 )
REFERENCE	DATA						PARAMETRIC	DATA	
SREF = 5500.0000 SQ.F LREF = 327.7800 IN. EREF = 2348.0400 IN. SCALE = .0300	T. XMRP YMRP ZMRP	= 1339.9000 IN. = .0000 IN. = 190.8000 IN.	'C		E E E	ALPHAC = ELV-18 = ELEVON = BETAO = DX =	4.000 .000 10.000 .000 .000	BETAC = ELV-0B = MACH = PHI = DY =	.800 3.000 .600 .000
		RN/L = 3.33	GRADIE	NT INTERVAL =	.00/ 12.00				
ALPHAO = 10.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .28476 .29082 .30484 .33087 .36366 .36537 .40648 .00271	CA-C CLM- .01636032 .01652041 .01713065 .01749118 .01598160 .01471185 .01330211 .00011084 RN/L = 3.27	7(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155(155	CC CBL-C 1091300055 1094100070 1096200093 1095900100 1093100131 1091100116 1099700102 1000900005	.00298 .00308 .00307 .00311	CL-C .28022 .28623 .30013 .32600 .35880 .38054 .40368 .00269	CD-C .04819 .04895 .05094 .05367 .05560 .05647 .05732 .00037	CSL-C 00041 00051 00058 00074 00104 00090 00085 00004	CLN-C .00164 .00233 .00299 .00306 .00319 .00316 .00320
ALPHAO = 14.000 DZ .000 3.000 7.500 15.000 30.000 45.000 60.000 GRADIENT	CN-C .20103 .20977 .22608 .26239 .31534 .34949 .39356 .00336	CA-C CLM01218 .082 .01374 .062 .01461 .031 .01795029 .01790108 .01639150 .01494192 .00031008	591 371 771 201 171 705	7-C CBL-C 0076100000 0078400031 0088700082 0098800113 0098400102 0091500093	.00131 .00208 .00260 .00327 .00329	CL-C .19730 .20564 .22199 .25779 .31050 .34465 .37872	CD-C .03567 .03510 .04059 .04754 .05274 .05461 .05652	CSL-C .00003 00023 00051 00064 00074 00064 0005	CLN-C .000B7 .00133 .00211 .00266 .00336 .00337 .00336

	CA20 747/1	01 51	CARRIER DATA	(56N147) ( 26 NOV 75 )
REFERENCE DATA				PARAMETRIC DATA
SREF = 5500.0000 TQ.FT. XMRP LREF = 327.7800 IN. YMRP BREF = 2348.0400 IN. ZMRP SCALE = .0300	* 1339.9000 IN.XC * .0000 IN.YC * 190.8000 IN.ZC		ALPHAC ** ELV-1B = ELEVON = BETAO = DX =	H.000 BETAC = .000 .000 ELV-OB = 3.000 10.000 MACH = .300 .000 PHI = .000 .000 DY = .000
	RN/L = 1.89	GRADIENT INTERVAL =	.00/ 12.00	
ALPHAO = 10.000  DZ CN-C .000 .25589 3.000 .26145 7.500 .27526 15.000 .29747 30.000 .32471 45.000 .34475 60.000 .36599 GRADIENT .00262	CA-C CLM-C .0112106403 .0116307544 .0121810664 .0125815415 .0119919409 .0106822154 .0095324952 .0001300578	CY-C	CYN-C CL-C .00193 .25202 .00256 .25751 .00332 .27120 .00373 .29327 .00394 .32044 .00413 .34052 .00429 .36178 .00260	CD-C CSL-C CLN-C .0401400019 .00194 .6411000038 .00260 .0430300059 .00389 .0456200061 .00380 .0477300085 .00404 .0484000103 .00424 .0493400125 .00443 .0003900005 .00019
	CA20 747/I	01 S1	CARRIER DATA	(56N148) ( 25 NOV 75 )
REFERENCE DATA				PARAMETRIC DATA
REFERENCE DATA  SREF = 5500.0000 SQ.FT. XMRP LREF = 327.7800 IN. YMRP BREF = 2348.0400 IN. ZMRP SCALE = .0300	* 1339.9000 IN.XC * .0000 IN.YC = 190.8000 IN.ZC		ALPHAC = ELV-1B = ELEVON = BETAO = OX =	4.000 BETAC = .800 .000 ELV-08 = 3.000 10.000 MACH = .700 .000 PH1 = .000
SREF = 5500.0000 SQ.FT. XMRP LREF = 327.7800 IN. YMRP BREF = 2348.0400 IN. ZMRP	■ .0000 IN.YC		ELV-18 = ELEVÓN = BETAO =	4.000 BETAC = .000 .000 ELV-OB = 3.000 10.000 MACH = .700 .000 PH1 = .000

OK. C CO										
		CA20	747/1	01 51	(	CARRIER DATA		(5GN149	9) (26 N	DV 75 1
REI	FERENCE DATA							PARAMETRIC	DATA	
SREF = 5500.000 LREF = 327.78 BREF = 2348.044 SCALE = .03	O IN. ZMRP		O IN.XC O IN.YC O IN.ZC				ALPHAC = RUD-U = ELEVON = BETAO = DX =	4.000 .000 5.000 .000	BETAC = RUD-L = AILRON = PHI = DY =	.000 .000 -10.000 .000 .000
		RN/L =	3.34	GRADIENT IN	TERVAL =	.00/ 12.00				
3.	CN-C 000 .30533 000 .31330 500 .32759 000 .34951 000 .37611 000 .39700	CA-C .01658 .91650 .01604 .01620 .01451 .01422 .01348 00008	CLM-C 08809 09956 12002 15548 18699 20099 21714 00428	CY-C 01713 01750 02125 03151 01787 00656 00057	CBL-C .00425 .00352 .00247 00031 00145 00143 00024	CYN-C .00027 .00112 .00375 .01118 .01731 .00722 .0L057 .00047	CL-C .30063 .30656 .32283 .34465 .37329 .39213 .41284 .00298	CD-C .05061 .05143 .05229 .05460 .05575 .05732 .05861 .00022	CSL-C .00421 .00357 .00279 .00078 00113 00096 00121 00019	CLN-C 08017 .00075 .00348 .01115 .01348 .00734 .00270
3. 7. 15.	CN-C 000 .23023 000 .23529 500 .23494 000 .28598 000 .33336 000 .36367	CA-C .01564 .01565 .01679 .01714 .01636 .01538 .01435	CLM-C 00085 .00437 03066 07705 13963 17116 20293	CY-C 00906 01176 01597 02364 03301 02509 01746	CBL-C .00502	CYN-C 00478 00283 .00015 .00589 .01334 .01056 .00795	CL-C .22598 .23101 .25045 .28132 .32856 .35983 .36933	CD-C .04217 .04267 .04579 .04979 .05318 .05519 .05715	CSL-C .00445 .00434 .00365 .00265 00009 00091 00178	CLN-C 00528 00331 00024 .00593 .01341 .01069 .00816

TABULATED SOURCE DATA - CA2D

BTHT-1931CAS STRUT T+1 CORR K1+F0 H15.1A V9.1 C (EGMDA4) ( 02 MAY 75 )

			D:H:-1-	121042 2	11701 1.1 001						
	REFERENCE	DATA						F	PARAFETRIC	DATA	
LREF = 3	000.0000 SQ.F 000.7800 IN. 048.0400 IN. 0300	T. XMRP YMRP ZMRP		IN. XC IN. YC IN. ZC				STAB # RUD-L # ELV-OB # DZ # MACH #	.000	RUD-U = ELV-IB = S1-12 = ALPHAO =	.000 .000 .000 6.000
			RN/L =	3.18	GRADIENT INTE	RVAL = -5.0	00/ 5.00				
ALPHAN =	2.000 BETA -5.000 GRADIENT	CL .11186 .00000	CD .04693 .00000	CLM .14829 .00000	CY .01716 .00000	CLN 00543 .00000	CSL .00347 .00000	CA .04691 .00000	CN .11183 .00000	CBL .00348 .00000	CYN 00543 .00800
			RN/L =	3.15	GRADIENT INTE	RVAL * -5.	00/ 5.00				
ALPHAW =	4.000 BETA -5.000 GRADIENT	CL .09744 .00000	CD .04473 .00000	CLM .14796 .00000	CY .01742 .00000	CLN 00504 .00000	.00000 .00328	CA .04145 .00000	CN .09887 .00000	CBL .00346 .00000	CYN 00495 .00000
			RN/L =	3.13	GRADIENT INTE	ERVAL = -5.	00/ 5.00				
ALPHAW =	6.000 BETA -5.000 GRADIENT	CL .06478 .00000	CD .04273 .00000	CLM .14989 .00000	CY .01710 .00000	CLN 00439 .00000	CSL .00306 .00000	CA .03668 .00000	CN .09753 .00000	CEL .00335 .00000	CYN 00418 .00000
			RN/L =	3.13	GRADIENT INT	ERVAL = -5.	00/ 5.00				
ALPHAW #	8.000 BETA -5.000 GRADIENT	CL .07435 .00000	CD .04082 .00000	CLM .15465 .00000	CY .01607 .00000	CLN 00342 .00000	CSL .00279 .00000	CA .03280 .00000	CN .07826 .00000	CBL .00314 .00000	CYN 00300 .00000
			RN/L =	3.12	GRADIENT INT	ERVAL = -5.	00/ 5.00				
ALPHAW =	10.000 BETA -5.000 GRADIENT	CL .06320 .00000	CD .03888 .00000	CLM .15851 .00000	.00000 .01526 .00000	CLN 00254 .00000	CSL .00253 .00000	CA .02863 .00000	CN .05833 .00000	CBL .00296 .00000	CYN 00195 .00000
			RN/L =	3.08	GRADIENT INT	ERVAL = -5.	.00/ 5.00				
ALPHAW =	12.000 BETA -5.000 GRADIENT	CL .04781 .00000	CD .03675 .00000	CLM . 15694 . 00000	CY .01583 .00000	CLN 00229 .00000	CSL .00236 .00000	CA .02278 .00000	CN .05446 .00000	CBL .00298 .00000	CYN 00165 .00000

## BTWT-1431CA5 STRUT T+1 CORR K1+F0 H15.1A V9.1 C

(6GMD84) ( 02 MAY 75 )

	REFERENCE	DATA							PARAMETRIC	DATA	
LREF =	500.0000 SQ.F 327.7800 IN. 348.0400 IN. .0300	T. XMRP YMRP ZMRP		0 IN. XC 0 IN. YC 0 IN. ZC	:			BETA = RUD-U = ELV-IB = DZ = MACH =	.000 .000 .000 .000	STAB = RUD-L = ELV-OB = ALPHAO =	-2.000 3.000 6.000
	·		RN/L =	.00	GRADIENT INT	ERVAL = -5	.00/ 5.00				
ALPHAW ≈	2.000 BETA .000 GRADIENT	CL .11440 .00000	CD .04720 .00000	CLM .15180 .00000	CY 00080 .00000	CLN 00070 .00000	CSL .00050 .00000	CA .04720 .00000	CN .11440 .00000	CBL .00050 .00000	CYN 00070 .00000
			RN/L =	.00	GRADIENT INT	ERVAL = -5	.00/ 5.00				
ALPHAW =	4.000 BETA .000 GRADIENT	CL .10170 .00000	CD .04560 .00000	CLM .15210 .00000	CY 00100 .00000	CLN 00080 .00000	CSL .00020 .00000	CA .04280 .00000	CN .10330 .00000	.00000 .00020	CYN 00080 .00000
			RN/L =	.00	GRADIENT INT	ERVAL = -5	.00/ 5.00				
ALPHAW =	6.000 BETA .000 GRADIENT	CL .09200 .00000	.00000 .04300	CLM .15240 .00000	CY 00170 .00000	CLN 00050 .00000	CSL .00010 .00000	CA .03650 .00000	CN .09%80 .00000	CBL .00010 .00000	CYN 00050 .00000
			RN/L =	.00	GRADIENTT	ERVAL = -5	.00/ 5.00				
ALPHAW =	8.000 BETA .000 GRADIENT	CL .07490 .00000	CD .04170 .00000	CLM .15920 .00000	CY 00180 .00000	CLN 00050 .00000	CSL 00020 .00000	CA .03370 .00000	CN . 07889 . 09000	CBL 00020 .00000	CYN 00050 .00000
			RN/L =	.00	GRADIENT INT	ERVAL5	.00/ 5.00				
ALPHAW =	10.000 BETA .000 GRADIENT	CL .05650 .00000	CD .04570 .00000	CLM .17400 .00000	CY 00120 .00000	CLN 00060 .00000	CSL 00010 .00000	CA .03740 .00000	CN .06230 .00000	CBL 00010 .00000	CYN 00060 .00000
			RN/L =	.00	GRADIENT INT	ERVAL * -5	5.00 5.00				
ALPHAW =	12.000 BETA .000 GRADIENT	CL .03700 .00000	CD .05330 .00000	CLM .18400 .00000	CY .00016 .00000	CLN 00120 .00000	.00.20 0030 CSL	CA .04610 .00000	CN .04570 .00000	CBL 00010 .00000	CYN 00120 .00000

ec.

DATE 26 NOV 75

## TABULATED SOURCE DATA - CA20

BTWT-1431CAS STRUT T+1 CORR K1+F0 H15.1A V9.1 C

(66MDC4) ( 02 MAY 75 )

			DIMIT	J. CA. J		•• • • • • • • • • • • • • • • • • • • •					
REFERENCE DATA								PARAMETRIC DATA			
LREF = 3	00.0000 SQ.FT 27.7800 IN. 48.0400 IN. .0300	YMRP	= 1339.9000 = .0000 = 190.8000	IN. YC				STAB = PUD-L = ELV-OB = DZ = MACH =	-2.000 000. 000. 000.	RUD-U = ELV-18 = S1-12 = ALPHAO =	.000 .000 .000 6.000
		<b>4</b> .	RN/L =	3.18	GRADIENT INTER	VAL <b>= -</b> 5.	00/ 5.00				
ALPHAW =	5.000	CL 10825 .00000	CD .04689 .00000	CLM .15130 .00000	CY 01898 .00000	CLN .00442 .00000	CSL 00282 .00000	CA .04696 .00000	CN .10817 .00000	.00000 00282 .00000	.00000
		·.	RN/L ≖	3.15	GRADIENT INTER	VAL = -5.	00/ 5.00				
ALPHAW =	4.000 BETA 5.000 GRADIENT	CL .09389 .00000	CD .04480 .60000	CLM .14945 .00000	CY 01910 .00000	CLN .00453 .00000	CSL 00327 .00000	CA .04162 .00000	CN .09533 .00000	CBL 00340 .00000	СҮИ .00446 .0000
RN/L = 3.13 GRADIENT INTERVAL = -5.00/ 5.00											
ALPHAW =	6.000 BETA 5.000 GRADIENT	CL .08237 .00000	CD . 04295 . 00000	CLM .14860 .00000	CY 01895 .00000	CLN .00430 .00000	CSL 00359 .00000	CA .03702 .00000	CN .08516 .00000	CBL 00383 .00000	CYN .00409 .00000
			RN/L =	3.13	GRADIENT INTER	IVAL = -5.	00/ 5.00				
ALPHAW =	8.000 BETA 5.000 GRADIENT	CL .07443 .00000	CD .04141 .00000	CLM .14902 .00000	CY 01845 .00000	CLN .00365 .00000	CSL 00374 .00000	CA .03337 .00000	CN .07835 .00000	CBL 00408 .00000	.00000 .00000
		•	RN/L =	3.12	GRADIENT INTER	RVAL = -5.	.00/ 5.00				
	10.000 BETA 5.000 GRADIENT	CL .06533 .00000	CD .03977 .00000	CLM ~ .14903 .00000	01806 00000	CLN .00316 .00000	CSL 00395 .00000	CA .02941 .00000	CN .07046 .00000	CBL 00439 .00000	.00000
			RN/L =	3.08	GRADIENT INTER	RVAL = -5	.00/ 5.00				
ALPHAH *	12.000 BETA 5.000 GRADIENT	CL .04939 .00000	CD .03753 .00000	CLM .14662 .00000		CLN .00344 .00000	CSL 00447 .00000	CA .02366 .00000	CN .05614 .00000	CBL 00505 .00000	CYN .00277 .00000